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PAULINE CURDS, B.Sc.

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Aquaria, Terraria.—Klijnstra; Wilhoff (1); Notes on reptile-house requirements, Dowling (5); The rearing of reptiles, Rover; General notes on species to keep, Bustard (9); On desert species in the vivarium, Hoovers & Roon (2); On area marking by secretions, Mertens (1); On diseases in laboratory turtles, Kaplan (1); Natural foods for small reptiles, Morris, D.; Feeding of some reptiles, Skehan; On behaviour of various species, Reyst (3); Observations on various species imported by Dutch dealers, some photographs, Rekm; British and other European species in captivity, Groves, C. P.; Some C. Asiatic lizards in the Berlin Zoo, photographs, Petzold (1); Notes on food culture and recommended geckos, Bustard (6); Geckos in captivity, 3 figs., Bustard (7); *Agamas*, Fontejne; On *Anolis*, figs., Gouda; Behaviour and reactions of *Anolis*, Wijffels (3); On *Diploglossus tenuifasciatus*, photograph, Reyst (2); *Physignathus gilberti centralis*, Stettler; Experiences with *Anolis bimaculatus* and *Polychrus marmoratus* (photo), Meijer; *Iguana i. iguana*, Photograph, Wijffels (2); On *Tropidurus semitaeniatus*, photograph, Reyst (1); *Cordylus*, in captivity, figs., Bustard (2); *Cordylus cataphractus*, on cannibalistic tendency, Reyst (4); Techniques on incubating reptile eggs, reference to *Sceloporus* and *Cnemidophorus*, figs., Carpenter (7); Terrarium for *Ophisops elegans*, Nemens; On *Egernia whitii*, Hickman; On chameleons, Oeser; Chameleons, Smit; Chameleons, 2 figs., Bustard (3); Chameleons in captivity, figs., Bustard (4); Rearing chameleons in S. Africa, photographs, D'Ewes; Chameleons (*C. basiliscus*), pairing, eggs, photographs, Schipper; The "wanderings" of snakes in captivity, Mertens (15); On some captive Malayan snakes, Liat, Waters & Omar; Notes on captive snakes, Blackwell; S.W. African snakes, figs., Hoesch (3); American *Elaphe*, figs., Bustard (8); *Lampropeltis* spp., Bustard (5); On birth of *Coronella austriaca*, photograph, Offrein; On eggs and behaviour of young of *Dryomarchon c. couperi*, Groves, F.; On *Himantodes gracillimus*, Bels; On *Dasypeltis*, Hoovers & Roon (3); Successful hatching of eggs of *Crotaphopeltis hotamboeia*, Boughy; On rearing *Vipera berus* in captivity, figs., Taborski; Notes on and healing techniques with tortoises, Bickel; Box tortoises, 3 figs., Bustard (1); The case of pet turtles, figs., Dowling & Spencecock (8); On keeping sub-tropical terrapins, Guppy; On *Gopherus*, Grant (1); Diseases of *Amyda japonica* in captivity, Fukuda (2); *Amyda japonica*, on diseases, anatomical observations, etc., Fukuda & Kimura (3); Properties of degenerated lipids in diseased *Amyda japonica*, Fukuda & Kurogi (4); On *Caiman c. yacare*, Brock (1); *Alligator mississippiensis*, figs., Brock (2); *Crocodylus acutus*, fig., Brock (3);

Crocodylus niloticus, fig., Brock (4); *Osteoleaemus tetraepis*, fig., Brock (5); Crocodiles in captivity, general notes, Brock (6); On the behaviour of alligators and crocodiles, Brock (7); General notes on crocodilians, Brock (8).

General Habits.—Of *Hemidactylus frenatus*, Reid, J. A.; Bird nest used by *Calotes versicolor* as night living place, Prakash, I.; Of *Hemiphaeriodon gerrardi*, in captivity, Wilhoft (1); Natural history notes, including captivity, of *Egernia whitii*, Hickman.

Social and Gregarious Habits.—Aggressive behaviour and social dominance in *Cnemidophorus sexlineatus*, Carpenter (3); On a large aggregation of *Leptotyphlops d. dissectus* in Oklahoma, McCoy (1).

Habitat.—Habitat selection in reptiles, Hinde; Of *N. n. helvetica* in the Belgian Ardennes, Tereola.

Feeding Habits.—Wear of teeth in a dinosaur skull suggesting feeding habits, White, T. E.; Reptiles, Mertens (5); Of reptiles in captivity, Skehan; Behaviour and range of food accepted by reptiles, Hinde; Of some Amami snakes, Koba; Habits of some Iraq species, Weber; Observations on the diet of *Amphibolurus adelaidensis*, Tyler; Of *Crotaphytus c. baileyi* in nature, Nevada, Banta (2); Ophiophagy in *Sceloporus*, Busack; *Varanus niloticus*, Journal Nat. Parks; Trinidad snakes, Wehckind; *Python sebae* observed eating Impala in Natal, Journal Nat. Parks; Of *Ophedrys v. vernalis* in Ontario, Canada, Judd; Fish and snail in diet of *Natrix septemvittata*, Adler & Tilly (4); Photographs of *Elaphe obsoleta* swallowing a mouse, Hopp & Hiestand; Of *Carphophis amoenus*, Barbour; On feeding by *Dasyplestis*, Rabb & Snedigar; On *Acerchordus javanicus* habit, fish-constrictor, Dowling (3); *Diopholidus typus* eating chameleon, figs., Hoesch (1); *Chelodina oblonga*, on birds, Serrenty; Of *Terrapene c. carolina*, Klimstra & Newsome; Of *Gopherus*, Grant (1); Prey of crocodile, Natal, Journal Nat. Parks; Insect food of *Crocodilus niloticus* in Uganda, Corbet; On *Crocodilus niloticus* eating human, Kruger National Park.

Breeding and Parental Habits.—Reproduction of *Agama a. lionotus* at Nanyuki, Kenya, charts, Marshall & Hook; Breeding and maintenance of *Anolis*, Molle; Breeding season of *Eryx c. brevis*, figs., Deraniyagala (5); Of *Ophedrys v. vernalis*, Judd; Of *Carphophis amoenus*, Barbour; Mating of *Ptyas m. maximus*, Deraniyagala (7); 32 in a brood of *Sistrurus m. streckeri*, Carpenter (6).

Courtship.—Pattern of display in iguanids, Carpenter (4).

Egg Laying.—On eggs of some Texas reptiles, Sabath (2); Parturition and behaviour at birth of *Sceloporus jarrovi*, Carpenter (5); Record of a 17-egg clutch in *Lampropeltis c. calligaster*, Dietrich; Of *Testudo pardalis babcocki* in N. Rhodesia, Wilson.

Nesting Habits.—Observations in New Jersey on *Clemmys insculpta*, Pallas; Study of *Trionyx s. spinifera*, Breckenridge.

Locomotion.—Swimming movements postulated and based on reconstructions of Ichthyosaurs, Dechaseaux; Swimming of plesiosaurs, in particular, *Kromosaurus* from Queensland, Fletcher (1); Reptiles, on locomotion and bodily form in relation to environment Mertens (5). On gliding, figs., Mertens (6); The Malayan gliding reptiles, figs., Tweedie; Note on flying snake, India, chart, Vaughan-Arbuttle; Of *Hemidactylus frenatus*, Reid, J. A.; Of *Bitis peringueyi*, and speculations on the origin of sidewinding, figs., Brain (1); Swimming of water tortoises, figs., Mertens (11).

Moult: Ecdysis.—Observations on nasal obstruction,

and mechanical sloughing, during pre-moult period in *Natrix*, McDonald, H. S.

Voice.—Sound produced by *Ptyas mucosus*, Abdullali (1).

Behaviour.—Mode of life of *Kingoria nowacki* in the Permian, Cox; Carpenter (2); General patterns of behaviour in particular mechanisms associated with food, mating and habitat selection, Hinde; Patterns of display in Iguanids, Carpenter (4); Inter- and intra-specific behaviour in *Anolis*, Euibal; Colour changing in *Anolis*, Wijffels (1); Behaviour and reactions of *Anolis*, Wijffels (3); Aggressive behaviour and social dominance in *Cnemidophorus sexlineatus*, Carpenter (3); Protective behaviour in snakes, Malaya, Batchelor; The "wanderings" of snakes in captivity, Mertens (15); On the caudal lure of juvenile snakes, Neill (1); Tail-vibrating in captivity of *Elaphe situla*, Blackwell; Of *Heterodon n. nasicus* and possibility that it is venomous, Bragg; Of *Micrurus f. multicinctus*, and its relation to folk lore, Azevedo; On "combat" behaviour in vipers, figs., Thomas, E.; Behaviour of a brood of *Agk. p. piscivorus*, and notes on tail-luring, Wharton; Of *Malacochersus tornieri*, Egils (1); Of *Testudo marginata*, figs., Susebach.

Longevity.—General observations, records, Mertens (5); *Geochelone radiata* in captivity 30 years, Egils (3).

Economics.—General observations, Mertens (5); Importance of *Amyda sinensis* in Yangtze and Hankin Rivers, Bai, et al.

VENOM

AMPHIBIANS

Observations.—Parotid secretion as cause of death in *Lacerta lepida*, Papenfuss.

SNAKES

Observations.—Fractionation by gel-filtration method, Bjork & Porath (2); Venom enzymes of Formosan species, Chen (1); Effect of a nerve growth-promoting protein from venom, Cohen, S.; Pathogenic organism isolated from venom, Siddiq Husain; Detailed work on snakes, bites and treatment, key to W. African species, figs., Dekeyser & Derivot (2); On non-lethal bite by *Atractaspis microlepidota*, Egide; Use of snake venom in medicine, Hanson & Fouts; On cobra venom, biochemistry, Lin, Su & Ling; General observations on venom milking, attention, etc., photos., Petzold (2); Activation of venom proteases and sodium bicarbonate reversal of chelating effects, Philpot; On the five venomous Ceylon snakes, Ponnambalam; Snakes of S. Costa Rica, Robos; Studies on polynucleotides, Razell & Khorana; On snakes of Brazzaville, Ravisse; On mode of action of endotoxin, and effect of snake venoms, Spink; Poisoning incidence, and notes, in S. California, Russell (2); On 16 species, preliminary researches, Mangili; Possibility that *Heterodon n. nasicus* is venomous, Bragg; Case history of *Diopholidus typus* in Rhodesia, Broadley (5); Venom extraction from *D. typus*, Blake (2); On *Diopholidus*, Reinhard; Case history of *Thelotornis kirilandi*, in Bulawayo, Blaylock (1); Isolation of neurotoxic component of *Enhydryna schistosa* venom, Carey & Wright (1); The toxicity and immunological properties of some sea-snake venoms, particularly *Enhydryna schistosa*, Carey & Wright (2); Of *Demansia textilis*, *Oxyuranus scutellatus*, *Pseudochis porphyriacus*, Reilly; On Formosan cobra, Su (1); Of Formosan Krait, Su (2); Biochemical study of Formosan cobra, Yang, Chen & Su (1); Yang & Takemura (3); and *Agk. acutus*, Yang (5); Formosan snakes, Yang (4); Case of *Dendroaspis*

angusticeps bite in Congo, and notes on others, Leloup & Bukavu; Microscopic changes induced by several sublethal doses of *Naja haje* venom, Riad; Enzymic hydrolysis of lecithins of *Naja naja*, Rendina & Bovet-Nitti; On adenosine phosphatases of *N. naja* venom, Kaye; *N. nigricollis* venom effect on rabbit, Guyot & Boquet; Constituents of venom of *N. naja* and *nigricollis*, Detrait, Izard & Boquet (1); Fractionation of *Hemachatus* venom, Björk & Boman (1); Structure of the enzymically formed lysolecithins, Naja, Crotalus, Marinetti, Erbland, Temple & Stots (1); Fatty acid chain length preference of the enzyme, Naja, Crotalus, Marinetti, Erbland & Stots (2); Toxicity of *V. aspis* venom and anti-venom neutralisation, Roger, Lamy & Roger; Coagulation factors in venoms of *V. palestinae* and *Echis colorata*, Rechin, et al.; Quantitative study of venom secretion by *Vipera palestinae*, Kochwa (1); Chromatographic study of venom of *V. palestinae*, Kochwa, et al. (2); Cytotoxic effect of *V. aspis* venom on KB cells and its neutralisation by homologous anti-venom sera, Lamy & Roger; *Echis colorata*, study, Gitter, et al.; The effect of *Echis carinata sinhalaya* venom, Deraniyagala (4); Antigens as a lethal factor in *Echis carinata* venom and neurotoxins of *N. naja*, *nigricollis*, Detrait, Izard & Boquet (2); Case history of *Bitis arietans*, Balarin; Case history of *Bitis a. arietans* bite, in Bulawayo, Blaylock (2); Bradykinin-releasing factor from *B. jararaca* venom, Henriques, Fichman & Beraldo (1); Fractional precipitation of venom solutions of *Bothrops jararaca*, Henriques, Fichman, Henriques & Oliveira (2); On coagulant and fibrinolytic activity of *Bothrops* venom, Rosenfeld, Hampe & Kelen; Note on bite of *Sistrurus m. barbouri*, Blake (1); Case-history of *Sistrurus c. catenatus* bite, Dodge & Folk; Physiological effects of *Ancistrodon* venom, Anon (4); Biochemical study on *Agkistrodon acutus*, Yang, Su & Chen (2); *Agkistrodon piscivorus*, on a synthetic inhibitor of venom, Rosenthal & Geyer (2); Venom enzymes in *T. mucroscuamatus*, Chen (2); Venom enzymes of *T. gramineus*, Chen (3); On bite of *T. gramineus*, *A. rhodostoma* in Thailand, Benyajati, Keoplung & Srihibhaddh; On preparation of Crystalline L-Amino acid oxidase of *Crotalus adamanteus*, but not suitable for *Agk. piscivorus*, Wellner & Meister; Some positive properties of *Crotalus* venom after 26 years storage, Russell, Emery & Long (3); On bites by *Crotalus* in S. California, Russell (1); Hematologic effects of *C. adamanteus* venom, Radowski, et al.; Cardiovascular effects of *Crotalus* venom, Russell & Michaelis (4); On zootoxicologic effect of *Crotalus* venom, Russell & Michaelis (5); On individual venom composition from 531 *C. durissus terrificus*, Schenberg; *Crotalus adamanteus*, on toxicity and treatment, Deichmann, et al.

Treatment: Antivenines.—Russell (2); Reilly; Combined Thioalcium with Dextrose and Coramine in Philippines, Rustia; Radiculoneuritis due to treatment, Behar; On preparation of anti-snakebite serum, Mason; Snake-bite in Nigeria, Onuaguluthi; On snake bite treatment, figures of available serum kits, etc., of W. Africa, Dekeyser & Derivot (2); Active immunization on man against *Notechis scutatus*, Wiener; Neutralisation of *V. aspis* venom on KB cells, Lamy & Roger; *Vipera aspis*, specific immunity serum, Roger, Lamy & Roger; For *Vipera palestinae*, Shulov, et al.; For *Echis colorata*, Gitter, et al.; Of *Atractaspis corpulenta* bite in Liberia, Gunders, Walter & Etzel; Of bites in Thailand by *T. gramineus*, *Ag. rhodostoma*, Benyajati, Keoplung & Srihibhaddh; Snakes of S. Costa Rica, Roboz.

GEOGRAPHICAL DISTRIBUTION

General: Zoogeography.—On geographical distribution of reptiles and amphibians, Mertens (5); Biogeography of

island forms, Lanza & Bruzzone (2); On Ecuador, Peters, J. A. (2); On the spreading of *Lacerta* in the Adriatic islands, Radovanović (2).

PALEARCTIC REGION

Europe.—†Dughi & Sirague (1); Mertens (4); Mertens & Wermuth (17).

Great Britain.—Kinns.

England.—Groves, C. P.; (London area), Fitter; (Epping Forest, Essex), Malenoir; (Surrey), Hayman; (Stretham near Ely), Tarlo (1) (3); (Ely), Tarlo (2); (Dorset), Delair; Gooch; (Portland), Savage, R. J. G.; (Bristol), Heune (2).

Scotland.—(Loch Ness), Burton (1) (2).

Ireland.—(Cork), Atkins.

Wales.—(Glamorgan), Kühne (1).

Adriatic Islands.—Radovanović (2).

Afghanistan.—Wettstein; Wettstein-Westersheimb.

Africa.—Pasteur (6); (N.W.), Gans (1); (Sahara), †Hoffstetter (6); (Morocco), Choubert, Faure-Muret & Leveque; Pasteur (3) (5); Pasteur & Bons (7); (Doukkala plains), Bons (1); (Libya), †Hoffstetter (5); (Tunisia), Schomber & Kock; (Djebel Rehach), Gorce; (Galita Islands), Lanza & Bruzzone (1); (Sahara), Bons (2); (Central Sahara), Lapparent (2); (Edjelah), Lapparent, Clarac & Nougarede (3); (Somaliland (French)), Hooftien; (Ethiopia), Gans (1).

Arabia.—Gans (1); Irvine; (Sinai), Bons, Girot & Pasteur (4).

Armenia.—Luppa, Müller, Nicht & Tietze; (Arax R. valley), Darewsky (1).

Asia.—(Central), Mishchenko.

Belgium.—(Ardennes, Liège Valley), Tercas.

China.—Chow & Yeh (2); Chow & Hu (3); Deraniyagala (8); Huene (7); Sun; Yeh; Young (1, 3, 4, 5, 8, 9, 10, 11, 12); (Hupei Province), Wang; (Laiyang, Shantung), Young (7); (Shansi Province), Chow (1) (Yangtze and Hankiang Rivers), Bai, et al.

Corfu.—see under Ionian Sea.

Crimea.—Szczerbak.

Denmark.—Nielsen.

Estonia.—Hanson & Poots.

France.—Hoffstetter (1); Wezeman; (Basse-Alps) Debelmas (2); (Haute-Provence), Debelmas (1); (Iles d'Hyères), Knoepfler; (Normandy), Follet; (Provence), Fabre-Taxy, S.; (Rennes), Noulleau; (Toulouse region), Astre; (Vendée), Duguy & Dourand (2).

Germany.—Gramann; Huene (5, 6); Kuhn-Schnyder (1); Kuss; Müller (1); (Bayreuth), Kuhn-Schnyder (2); (Brunswick), Huene (2); (Hassfurt a. M.), Heller (1); (Erfingen), Heller (2); (Linz), Hamann; (Thuringia), Müller (2).

Greece.—(Peloponnesus), Buchholz.

Holland.—see under Netherlands.

Hungary.—(Börzsöny), Szabó.

Ionian Sea.—(Corfu; Phäaken Ids.), Mertens (12) (Phäaken Id.), Mertens (13).

Iran.—Gans.

Iraq.—Khalaf; Weber.

Israel.—Shulov, et al.

Italy.—(Verona), Auffenberg (7); (Liguria), Capocaccia (Turin), Torchio.

Japan.—Deraniyagala (8); Fukuda (1); Shikama; (Riukiu Islands), Malnate & Munsterman (3); (Tokara Islands), Shibata; Loo Choo Islands.—(Amami Group), Koba.

Jugo Slavia.—Becker; Radovanović (1).

Korea.—Hahn (1).

Mediterranean Islands.—Lanza & Bruzone (2).

Mongolia.—Tatarinov (1).

Netherlands.—Kruytzer; (Winterswijk), Faber; Hooijer (2); (Zeeland and Goeree-Overflakkee), Bree.

Norway.—Holgersen.

Palestine.—see Israel.

Poland.—Młynarski (1, 2); (Rebiecice Królewskie), Młynarski (3); (Bieszczady), Jozefik.

Portugal.—(Lisbon), Telles Antunes; Zbyszewski.

Riu Kiu Islands.—see under Japan.

Roumania.—Macarovič & Vancea.

Russia.—Chudinov; Flint; Hoevers (1); Orlov; Rozhdestvenskii (1); (Buryataskaya; Lake Baikal region), Dmitriev; (Kazakhstan), Paraskiv & Butovski; (Kuznetz basin), Rozhdestvenskii (2); (Turkistan, W. Karakum), Ushakov (2); (Esthonia), Hanson & Poots.

Spain.—(Catalogne), Bergounioux; (Iberian Peninsula), Klemmer; (Baños, Lérida Province), Lapparent (1).

Sweden.—Curry-Lindahl; Kauri.

Switzerland.—Zangerl (1).

Turkey.—Wettstein-Westersheimb.

ORIENTAL REGION

General-Irvine.

Andaman Islands.—Deraniyagala (8).

Annam.—see under Viet Nam.

Asia.—Peters, J. A. (1).

Burma.—Deraniyagala (8); Irvine; Wermuth (1).

Ceylon.—Deraniyagala (1, 3, 4, 5, 6, 8, 9); Eglis (2); Mertens (9); Ponnambalam.

China.—Deraniyagala (8); (South), Wermuth (1).

Formosa.—Chen (1); Su (1); Yang, Chen & Su (1); Yang, Su & Chen (2); Yang & Takemura (3); Yang (4, 5).

India.—Abdulali (1, 2); Deraniyagala (8); Irvine; Prakash, I.; Satyamurti; Srivastava; Vaughan-Arbuckle; (Madras State), Chari; (West Bengal; Raniganj coalfield), Robinson; (Bengal; Panchet Beds), Tarlo & Robinson (5); (Pakistan), Siddig Husain.

Indo-China.—Deraniyagala (8); Wermuth (1).

Indonesia.—Ruiter (1, 2, 3). (Celebes), Deraniyagala (8); Hooijer (1).

Malaysia.—(Malaya), Batchelor; Hutson (2); Irvine; Liat, Waters & Omar; Reid, J. A.; Tweedie; Wells, K. L.; Wyatt-Smith; (Malay Archipelago), Deraniyagala (8); (Komodo Islands), Deraniyagala (8); (Borneo), Deraniyagala (8); Harrison; Inger; Malnate (1); (Java), Hoessel; (Kedong Panas), Williams, E. (1).

Pakistan.—Included for convenience under India.

Philippine Islands.—Deraniyagala (8); Irvine; Rustia.

Siam.—see under Thailand.

Thailand.—Benyajati, Keoplung & Sribhibhadh; Deraniyagala (8); Irvine; Wermuth (1).

Viet-Nam.—Leviton (1); Tien.

AUSTRALIAN REGION AND

POLYNESIA

Australia.—Cogger (1); Fletcher (2); Glauert (1, 3); Hickman; Hills; Holder; Irvine; McPhee; Mertens (3); Reilly; Serventy; Stephenson; T. Y. S.; Wiener; Wilhoft (1); (Western), Lundelius & Warne; Glauert (2, 4); Worrell; (Cheyne Beach), Storr (2); (Queensland), Colliver; Fletcher (1); (New South Wales), Anon (1); (Sydney area), Cogger (2); (Lake Parramatta, nr. Sydney), Palmer, J. A.; (Ayers Rock), Mertens (2); (Nullarbor Plain), Tyler; (Houtman Abrolhos, N. Island), Storr (1).

New Guinea.—Holder; Mertens. (14); Ruiter (4); Stephenson.

New Hebrides.—Holder.

New Ireland.—Holder.

New Zealand.—Holder.

Norfolk Island.—Holder.

Solomon Islands.—Holder; Stephenson.

ETHIOPIAN REGION

Africa.—Holder.; Irvine; Rabb & Snedigar.

West Africa.—Dekeyser & Derivot (2); Dekeyser, Condamin & Derivot (3); (Senegal), Gans (2); (Parc National du Niokolo-Koba), Villiers (2); (Liberia), Daniel; (Liberia), Gunders, Walter & Etzel; (Cameroon), Perret; (Guinea; Portuguese), Villiers (1); (Nigeria), Onnaguthi; Woodward.

East Africa.—Coe; (Kenya), Hallet & Ellis; Marshall & Hook; (Mozambique), Broadley (2); (Tanganyika), Cox; (Tanganyika), Crompton (1); Loveridge; (Ifakara, E. Province), Freyvogel; (Uganda), Corbet.

Central Africa.—Shaw (3); (Congo), Leloup & Bukavu; (Oriental), Laurent; (Brazzaville), Ravisse; (Belgian), Perret; (Nyasaland), Broadley (1); (Shire Valley), Owen; (Rhodesia), Balarin; Warren; (S. Rhodesia, Bulavayo), Blaylock (1, 2); (S. Rhodesia), Broadley (2, 4); (Wedza), Rickson; (Salisbury), Siemers; (N. Rhodesia), Broadley (3); Wilson.

South Africa.—Archer; Bustard (2); D'Ewes; Janensch; Reece; Kruger National Park; (Beaufort West), Barry; (Karoo), Brink (2); (Murraysburg District), Brink (1); (N. Natal), Brink (4); (Natal), Journal Natal Parks; (Orange Free State), Brink (3, 5); (Transvaal), Broadley (2); (South West), Brain (1); Hoesch (1, 2).

Madagascar.—Hoffstetter (4); Pasteur (1).

Mascarene Islands.—Hoffstetter (4); (Indian Ocean), Street.

Mauritius.—Deraniyagala (2).

Seychelles Islands.—Deraniyagala (2).

Socotra.—Gans (1).

NEARCTIC REGION

Canada.—Kennedy; (Alberta), Langston (1); (London, Ontario), Judd; (Middle Island, Lake Erie Ids.), Ehrlich & Camin; (Quebec), Mosimann & Bider; (British Columbia; North Pender Island), Cook.

United States of America.—Bustard (5, 8); Carpenter (3); Fitch (1); Grant (1, 2); Irvine; Jeletzky; Kennedy;

Nakamura & Smith; Reid, G. K.; Sevon; Smith, H. M. & Huheey (2); Szarski.

North Eastern States.—(Maryland), Campbell; Cooper; (Chesapeake Bay), Mansueti & Wallace; (Chincoteague Bay), Schwartz, F. J.; (Michigan; Mud Lake bog, Wash-tensaw Cnty.), Heatwole & Getz; (Minnesota), Brecken-ridge; (Illinois), Klimstra & Newsome; (Randolph Co.), Parmalee; (Pine Hills area), Rossman; (Indiana), Adler (2); Cunningham; (Johnson Cnty.), Holman (2); (Iowa), Dodge & Folk; (New Jersey), Pallas; (New York), Heckman; (Allegany State Park), Stewart, Larson & Matthews; (Ohio), Adler & Dennis (3); Adler & Tilley (4); Ehrhart; (Erie Cnty.), Brungs & Britt; (Licking Co.), Witten; (Linton), Peabody; (Lucas Cnty.), Hahn (2); (Pennsylvania), Cramer; (Huntingdon Cnty.), Bell; (Lancaster County), Price, J. W.; (Rhode Island), Clement (1) (2); (Wisconsin), Edgren.

South Eastern States.—Auffenberg (2); (Alabama), Langston (2); Zangerl (2); Meacham; (Arkansas), Conant (1); Dowling (1); (Carolina North), Palmer, W. M. & Whitehead; White, L. B.; (Florida), Ali; Auffenberg (1, 3, 6); Le Buff; Meyerriecks; (Monroe Cnty.), Cryan; (Citrus Co., Sabal-Tooth Cave), Holman (1); (Georgia), Jordan; Meacham; (Atlanta), Bond; (Polk Cnty.), Collins; (Kentucky), Barbour; (Louisiana), Turner; (Jefferson Parish), Tinkle; (Maryland, Chincoteague Bay), Schwartz, F. J.; (Mississippi), Brode; (Marion Cnty.), Webb (1); (Missouri), Conant (1); (Virginia), Barton; Burger.

Middle and Western States.—(Arizona), Brady; Dowling (2); (St. Johns), Camp & Welles (2); (Yuma Cnty.), Elvin; (Kansas), Legler (1, 2); Sternberg & Walker (2); Vaughn (1); (Meade Co., Cragin Quarry), Etheridge (1, 2); (Osage Cnty.), Clarke, R. F.; (Ottawa Cnty.), Eaton; (Russell Springs), Sternberg & Walker (1); (Montana), Olson (2); Rohrer & Konieski; (Madison Valley), Auffenberg (4); (Nebraska), Brattstrom (2) (Nevada), Banta (2); (New Mexico, Southern), Sabath (1); (Okla-homa), Carpenter (1, 2, 7); Etheridge (3); Seltin (2); Vaughn (2, 3); Woodburne; (Payne Cnty.), McCoy (1); (Roger Mills Co.), Kitts & Black; (Johnston Cnty.), Carpenter (6); (Oregon), Rothman; (South Dakota), Fishbeck & Underhill; Zangerl & Sloan (3); (Texas), Axtell (1); Legler (5); Mitchell & Tinkle; Olson (1); Romer (2); Sabath (1, 2); Seltin (1); (Austin), Blair; (Bezar Co. Friesenhahn Cave), Milstead; (Duval Cnty.) Grant (5); (Jim Hogg Cnty.), Grant (5); (Utah; Washing-ton Cnty.), Tanner (1); (Wyoming), Brattstrom (2); Hecht; Mook (1); (Elk Mountain and Tabernacle Butte area), McGrew.

Pacific Coast States.—(Baja California), Savage, J. M. (3); (California), Brattstrom (1); Cook; Kahn; Mayhew; Stebbins (1); (South), Russell (1, 2); (Mojave desert), Downs, Howard, Clements & Smith; (Inyo Cnty.), Banta (1); (San Luis, Obispo Cnty.), Pimental (1); (Del Norte Cnty.), Pimental (2); (Oregon), Brattstrom & Sturn (3); Cook; Rothman; (Washington), Cook.

CENTRAL AMERICA

General.—Dowling (2); Peters, J. A. (1).

Costa Rica.—Dowling (2); Minton & Smith; Robos.

Guatemala.—Dowling (2); Duellman (2, 4); Duellman & Wellman (5); Luna; Minton & Smith; Mook (2).

Honduras.—Dowling (2); (British), Dixon; Neill (1, 2); Neill & Allen (3).

Mexico.—Anderson, J. D.; Conant (2); Dowling (2); Duellman (2, 3); Duellman & Wellman (5); Grant (1, 2); Leviton & Tanner (2); Parker, R. B.; Shaw (4); (North-ern), Williams, K. L., Smith & Chrapliwy; (Chihuahua),

Tanner & Robison (3, 5, 6); Legler (3); Webb & Legler (2); (Ciudad Obregon), McCoy, Branson & Siak (2); (Jalisco), Grant & Smith (6); (N.W. Jalisco), Tanner, & Robison (4); (Michoacán), Duellman (1); (Oaxaca), Zweifel (2); (San Luis Potosi), Liner; (Sierra Madre) Axtell (2); (Sonora), Tanner (2); (Tabasco, Teapa), Smith, H. M. (1); (Tres Mariás Islands), Zweifel (1), (Chiapas) Toro.

Nicaragua.—Dixon; Dowling (2).

Panama.—Grocott & Sadler.

Salvador.—Dowling (2); Minton & Smith.

West Indies.—King; Schwartz, A. & Marsh (3); (Bahamas), Legler (4); (British Leeward Islands, Barbuda), Auffenberg (5); (Cuba), Grant (3); Schwartz, A. (1, 2); (and Isla de Pinos), Schwartz, A. & Thomas (4); (Hispaniola), Hasti, Williams, E. E. (2); (Jamaica), Holder; Stephenson; (Trinidad), Wehckind; (Virgin Islands), Scott.

Caribbean Sea.—Carr & Ogren.

SOUTH AMERICA

General.—Irvine.—Peters, J. A. (1).

Argentina.—Cattoi & Freiberg; Gallardo; Hellmich; (San Juan, stagonolepoids), Casamiquela; (Ischigualasto), Reig.

Bolivia.—Hellmich; Williams, E. E. (3); (S.E. Low-lands), Gans (3).

Brazil.—Azevedo; Hoge, Belluomini, Schreiber & Penha (3); Schenberg; Williams, E. E. (3); (Grand Chaco), Hellmich; (Jacarecanga, Estado do Pará), Hoge & Belluomini (2); (Rio Grande do Sul), Lema.

Chile.—Wetzel; (Antofagasta Province), Marx, H. (1).

Colombia.—Maria (1, 2); Marx, H. (2); Medem (1, 2); Williams, E. E. (3); (Amazonas), Medem (4).

Ecuador.—Hoffstetter (2); Peters, J. A. (2); Peters, J. A. & Orcés—V. (4); Savage, J. M. (2).

Galapagos Islands.—Augustin; Eibl-Eibesfeldt; Mertens (8); Scott; Street.

Guiana.—Williams, E. E. (3); (Surinam), Williams, E. E. (3); (British), Shaw (2).

Paraguay.—Hellmich; Medem (3); Williams, E. E. (3).

Patagonia.—Hellmich; (Chubut); Hoffstetter (3).

Peru.—Williams, E. E. (3).

Trinidad.—Williams, E. E. (3).

Uruguay.—(Montevideo), Klappenbach.

Venezuela.—Belluomini & Lancini (1); Hoge & Lancini (4); Pierce & Welles (2); Sexton; Williams, E. E. (3); (Isla las Aves), Aleman; (Santa Barbara de Barinas), Pierce & Wells (1); (Falcón state, Muaco), Royo y Gómez.

PALAEONTOLOGY AND GEOLOGICAL DISTRIBUTION

Cenozoic.—(Eocene, Miocene and Pleistocene), Brattstrom (1).

Tertiary.—Anon (2); Auffenberg (2).

Quaternary.—Anon (2); Downs, Howard, Clements & Smith.

Pleistocene.—Auffenberg (1, 2, 3, 5, 6); Chow (1); Deraniyagala (1); Dowling (1); Etheridge (1, 2, 3); Holman (1); Hooijer (1); Milstead; Mook (2); Royoy; Gómez; Williams, E. (1).

Pliocene.—Brattstrom & Sturn (3); Heller (2); Kitts & Black; Mlynarski (1, 3); Woodburne;

Miocene.—Auffenberg (4); Kuss; Shikama; Telles Antunes; Zbyszewski; (Pontian), Bergounioux.

Oligocene.—Astre; Brattstrom (2); Gramann; Mlynarski (2); Zangerl (1).

Eocene.—Auffenberg (7); Davis & Elliott; Hecht; McGrew; Matthes; Mlynarski (2); Mook (1); Nielsen; Tatarinov (1); Yeh, H.; (Eocene-Oligocene), Hoffstetter (1, 2, 5).

Mesozoic.—Brink (3); Delair; Wang.

Paleocene.—(Cretaceous ?), Hoffstetter (3).

Cretaceous.—Casier; Cattoi & Freiberg; Choubert, Faure-Muret & Levêque; Debelmas (1, 2); Dughi & Sirugue (1); Eaton; Fabre-Taxy, S.; Fletcher (1); Hoffstetter (6); Huene (3); Jeletzky; Krustzer; Langston (1, 2); Lundelius & Warne; Pierce & Wells (1, 2); Rohrer & Konizeski; Rozhdetsvenskii (2); Sevón; Sternberg & Walker (1, 2); Sun; Vaughn (1); Wetzel; Young, C. (1, 5, 7, 8, 10); Zangerl (2); Zangerl & Sloan (3); ("Continental intercalcaire"). Lapparent (2); (Upper), Lapparent (1) (Lower), Olson (2).

Jurassic.—Follet; Kuhn (1); Lapparent, Clarac & Nougarede (3); Savage, R. J. G.; Tarlo (1, 2, 3); Young (1, 8, 9); (Upper Jurassic; Kimeridgian and Oxfordian), Tarlo (4).

Triassic.—Brink (5); Casamiquela; Chow & Hu (3); Colbert; Colliver; Cramer; Crompton (1); Faber; Gorce; Heller (1); Huene (2, 5, 6); Hooijer (2); Kuhn (2); Kuhn-Schwyder (1, 2); Price, J. W.; Reis; Robinson; Tarlo & Robinson (5); Young (3, 11, 12); (Chinle formation), Camp & Welles (2).

Permian.—Barry; Brink (1, 2); Cox; Janensch; Müller, (1, 2); Olson (1); Orlov; Romer (2); Schmidt, H. (2); Seltin (1, 2); Vaughn (2); (Lower) Vaughn (3); (Upper), Chudinov.

Carboniferous.—Penbody.

III.—SYSTEMATIC INDEX.

THE ORDERS AND FAMILIES AND GENERA WITHIN THEM, ARE ALPHABETICALLY ARRANGED.

Reference to the "Titles" is by the name(s) of the Author(s) printed in Clarendon type.

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Prophetic fossils, **de Beer & Swinton**; Significance of resemblances shown between recent Cetacea and Sireniidae and fossil Ichthyosauria **Dechaseaux**; Reptilia and keys to their classification from the Pleistocene of Ceylon, **Deraniyagala** (1); New occurrences of dinosaurs in the Lake Baikal region, **Dmitriev**; Quaternary reptiles from Schuiling Cave in the Mojave desert, California, **Downs, Howard, Clements & Smith**; Tooth replacement in reptiles, **Edmund** (2); Review of Australian fossils, **Hills**; Fossilization of Ichthyosaurs, **Hofmann**; Reptiles from the Pleistocene of Saber-tooth cave, Citrus Co., Florida, **Holman** (1); *Cymatosaurus* sp. and *Nothosaurus* spp. from the Triassic of the Netherlands, **Hooijer** (2); Pre-Tertiary saurians of Asia, **Huene** (4); Saurians and relatives in China, **Huene** (7); The problem of the origin of the Ichthyosaurs, **Huene** (9); Vertebrate paleontology a general study, **Jarvik** (2); Reptilia from a Pliocene fauna, Roger Mills Co., Oklahoma, **Kitts & Black**; Triconodont teeth and position of the group, **Kühne** (2); Saurioida and Theropoda study of the structure of the vertebral column, **Kuhn** (3); Large numbers of dinosaur eggs from Bastus, Spain, **Lapparent** (1); Amateur collector's handbook, **Matthews**; Reptilia (one gen. nov. undescribed) from the Permian of Texas, **Olson** (1); Predatory dinocerophalians of Isheev, U.S.S.R., **Orlov**; Turtle, crocodile? and snake remains from the Pleistocene of Venezuela, **Royo y Gómez**; Lower Cretaceous dinosaurs in the Kuznetz basin, **Rozhdetsvenskii** (2); General paleontology of fossil Reptilia from Mendoza, **Rusconi**; Early evolution of land vertebrates, attempted reconstructions, **Romer** (1); Texas Permian redbeds and their vertebrate fauna, **Romer** (2); A review of the Captorhinidae, **Seltin** (2); *Haplocanthosaurus*, a large plant-eating dinosaur from Canon City, Colorado, **Scheele**; New fossil localities in the Lower Permian of N-C. Texas, **Seltin** (1); Report on a plesiosaur skeleton from western Kansas, **Sternberg & Walker** (1); Fossil reptiles from the Panchet Beds of India, **Tarlo & Robinson** (5); Origin and classification of reptiles, **Tatarinov** (3); The origin and evolution of continental vertebrate fauna, **Westoll** (2); Reptilia from the Senonian of Quiriquina, Chile, **Wetzel**; *Camarasaurus lentus* brain case and internal aspects of skull bones, **White, T. E.**; First record of dinosaurian remains from Shansi, **Young** (5); Vertebrate paleontology and stratigraphical correlation in China, **Young** (8).
†Egg.—†*Oolites megadermus* sp. nov. (p. 34, Pl. 1, 2), Upper Cretaceous, Laiyang, Shantung, China: Vertebrata Palasiatica, 3, 1 1959, **Young, J.** (10).

General Recent.—Diagnosis of the classes Reptilia and Mammalia, **Simpson**; Third check-list to families, genera (keys included) and species of Europe, some diagnostic figures, some German vernacular names; not itemised in this Record, **Mertens & Wermuth** (17); Preliminary report on Armenian fauna, coloured figures of some reptiles, ecological notes, **Luppa, Müller, Nicht & Tietze**; Reptiles of W. Kazakhstan, Russia, **Paraskiv & Butovski**; Check list of S. Dakota, **Fishbeck & Underhill**; A field guide to reptiles and amphibians of the United States and Canada, of the 100th meridian, **Kennedy**; Herpetology of the Tres Marias Islands, descriptions of species, key to amphibians and reptiles, history of collecting in the islands, zoogeography, etc., plates, **Zweifel** (1); Report on collecting trip in Santa Cruz, Bolivia, localities described, figd., species listed, **Gans** (3); Of the Grand Chaco, Brazil and Paraguay, keys, figs., history, etc., **Heilmich**; On the reptile fauna of Morocco, general, **Pasteur** (5); Catalogue of reptiles of Morocco, and revision of forms of Africa, Europe and Asia, figs., plates, **Pasteur & Bons** (7); On a collection of lizards and snakes from Iraq, **Khalaf**; General account of the reptiles of the Sydney region, Australia, figs., **Cogger** (2)

†COTYLOSAURIA

†*Eosaurus copei* systematic study and figs. of the oldest known reptile from the Carboniferous of Ohio, Peabody.

†*Hypognathus fenneri* from the Upper Triassic of Lancaster Co., Pennsylvania, Price, J. W.

†*Labidosaurus oklahomensis* sp. nov. (p. 479, text-figs. 197-198), Wellington formation, McCaren quarry, Eddy, Oklahoma; Fieldiana Geol. 10 34 1959, Seltin (2).

†*Neoprocolophon* from the Lower Triassic of Shansi, China, Huene (4).

†ICHTHYOSAURIA

Ichthyosauria—origins of the group, possible affinities with tortoises, Appleby (2); Ophthalmosauridae from the Middle and Upper Jurassic of Europe and N. America, Appleby (1).

†ICTIDOSAURIA

†*Lufengia* gen. nov. Tritylodontidae, Genotype, *L. delicata* sp. nov. (p. 9, pl. 1) (text-f. 1), Upper Triassic, Heikopeng, Lufeng, Yunnan, China, Vertebrata Palasiatica 3 1 1959, Chow & Hu (3).

†ORNITHISCHIA

Ornithischia (Ornithopoda, Ponderopoda and Thyreophora) from the Cretaceous of Asia, Huene (4).

†*Anchiceratops* habits, structure and general study from the Cretaceous of Alberta, Langston (1).

†*Chialingosaurus* gen. nov., Stegosauridae; type *C. kuani* sp. nov. pl. 1 6 figs, Upper Jurassic, Taipingtsai, 200 km. north of Chungking, Szechuan, China, Vertebrata Palasiatica 3 1 1959, Young, J. (9).

†*Edmontosaurus* sp. (possibly new) from the Upper Cretaceous of Montana, Rohrer & Konizski.

†*Iguanodon bernissartensis*, on the discovery, reconstruction, structure and associated remains, Casier.

†*Lophorhynchon* gen. nov. (p. 321) of Hadrosaurinae, type sp. *L. atopus* sp. nov. (p. 321, figs. 146-158, 159C, 163A); Selma, Dallas Co., Alabama, Campanian, Cretaceous, Fieldiana Geol. Mem. 3 6 1960, Langston (2).

†*Psittacosaurus sinensis* " (sp. nov.)" (pp. 40, 116; text-figs. 50-58 pls. 4, 5); Lower Cretaceous, Tushan Village, Laiyang city, Shantung, China. Palaeont. Sinica N.S.C. 16 1958, Young (7).

†*Silvisaurus* gen. nov. (p. 5) of Nodosauridae type sp. *S. condrayi* sp. nov. (p. 5, text-figs 1-21); Terra Cotta clay member of the Dakota formation, L. Cretaceous, Ottawa County, Kansas, Paleont. Contr. Univ. Kansas Vert. 8 1960, Eaton, T. H.

†*Taninus chingkankouensis* sp. nov. (pp. 22, 91, text-figs. 35-37), Upper Cretaceous, Laiyang, Shantung, China. Palaeont. sinica N.S.C. 16 1958, Young, (7).

†*Triceratops* from the Maestrichtian of N. America, not Danian as other comparable beds outside America, Jeletzky.

†*Tsintacosaurus* gen. nov. (pp. 2, 56); of Saurolophinae, type sp. *T. spinorhinus* sp. nov. (pp. 2, 56; text-figs. 1-34; pls. 1-3, 6); Upper Cretaceous, Laiyang Shantung, China. Palaeont sinica N.S.C. 16 1958, Young (7). *T. spinorhinus* mounting and restoration at the Institute of Vertebrate Paleontology, Young (2).

†PELYCOSAURIA

†*Basicranodon* gen. nov. (p. 44) of Pelycosauria type sp. *B. fortisillensis* sp. nov. (p. 44, text-figs. 1A-D); Lower Permian, Comanche Co., Oklahoma. J. Wash. Acad. Sci. 48 2 1958, Vaughn (2).

†*Colobomycter* gen. nov. (p. 981), of Eothyrididae, type sp. *C. pholeter* sp. nov. (p. 981, text-fig. 1); Lower Permian, Fort Sill, Oklahoma. J. Paleont. 32 5 1958, Vaughn (3).

†PROTOSAURIA

†*Toxolophosaurus* gen. nov. (p. 551) of Trilophosauridae type sp. *Toxolophosaurus cloudi* sp. nov. p. 551, text-figs. 1, 2A and C, 3; Kootenai formation, Lower Cretaceous, Montana. J. Paleont. 34 3 1960, Olson (2).

†PTEROSAURIA

†*Pteranodon* with wing bones articulated and in position, found near Wakeeney, Kansas, U.S.A., Cretaceous. Sternberg & Walker (2).

†SAURISCHIA

In the Mesozoic of Dorset, Delair; (Coelurosauria, Pachypodosauria, Prosauropoda, and Sauropoda) from the Pre-Tertiary of Asia, Huene (4); Similar Parasuchians from Brunswick and Bristol, Huene (2); Theropoda teeth from Nova Olinda, Amazonas State, figs., Price, L. P.

†*Bactrosaurus johnsoni* from the U. Cretaceous of Shansi, Young (5).

†*Brachiosaurus nougaredi* sp. nov. (p. 40, pls. II, figs. 3, 4; III, figs. 3, 4; VIII, figs. 6, 7; X, figs. 3, 4); Cretaceous, Central Sahara, Zarzaitine. Mem. Soc. geol. Fr. Paleont. 88A 1960, Lapparent (2).

†*Chingkankousaurus* gen. nov. (pp. 26, 101); of Saurischia, *C. fragilis* sp. nov. (pp. 26, 101); Upper Cretaceous, S. of Chinkankou, text-fig. 44. Palaeont. sinica N.S.C. 16 1958, Young (7).

†*Coelurosaurichnus ziegelangernensis* (p. 439, text-figs. 1-2); Middle Keuper, *C. sassendorfsensis* (p. 440, text-fig. 3d); Triassic spp. nov. Neues Jb. Geol. Paleont. Monat. 1958 10, Kuhn (2).

†*Elaphrosaurus iguidiensis* (p. 30, pl. IV, fig. 8; pl. V, figs. 7-14; pl. XI, fig. 9; *E. gautieri* p. 31, pl. V, figs. 5, 6; pl. X, fig. 5; pl. XI, figs. 2, 4-8, 10, 11, spp. nov.) Cretaceous, In Abangarit, Central Sahara. Mem. Soc. Geol. Fr. Paleont. 88A, 1960, Lapparent (2).

†*Inosaurus* gen. nov. p. 26, pl. VII, fig. 1; pl. XI, fig. 1; of Megalosauridae, *I. tedreftensis* sp. nov. p. 26, Cretaceous, In Abangarit, Central Sahara. Mem. Soc. geol. Fr. Paleont. 88A 1960, Lapparent (2).

†*Mamenchisaurus constructus* from the Upper Jurassic of Mamenchi Yiping, China, Young (1).

†*Microceratops gobiensis* remains from the Cretaceous of Shansi, Young (5).

†*Omeisaurus changshouensis* sp. nov. (p. 21, text-figs. 10-14); Upper Chungking Series, Upper Jurassic, Szechuan basin, China. Vertebrata Palasiatica 2 1 1958, Young (1).

†*Pachysauriscus* nom. nov. for *Pachysaurus* F. v. Huene 1908 non Fitzinger 1843, Kuhn (5).

†*Palaeosauriscus* nom. nov. for *Palaeosaurus* Riley & Stutchbury 1836 non Geoffroy 1833, Kuhn (5).

†*Rebbachisaurus tamesnensis* sp. nov. (p. 33, pls. II, figs. 1, 2; III, figs. 1, 2; V, figs. 18-20; VII, figs. 2-5, 7-9; VIII, figs. 1-4, 9, 10; IX, figs. 2-5; X, figs. 1, 2; XI, fig. 3; text-fig. 12); Cretaceous, Central Sahara (El Rhaz). Mem. Soc. Geol. Fr. Paleont. 88A 1960, Lapparent (2).

†*Velociraptor mongoliensis* single tooth from Shansi, Young (5).

†SAUROPTERYGIA

In the Mesozoic of Dorset, Delair; (Nothosauridae and Pliosauridae) from Asia, Pre-Tertiary, Huene (4).

†*Anarosaurus multidentatus* sp. nov. (p. 383, text-fig. 1); Germany, Cretaceous. Neues Jb. Geol. Palaeont. Monats. 1958, Huene (3).

†*Cyamodus* a series of stages of dentition development from the German Trias, all types except *C. rostratus*, Kuhn-Schwyder (1); *C. rostratus*, skull structure palatine teeth study, and origin, Kuhn-Schwyder (2).

†*Henodus chelyops*, new find at Tübingen, Fischer, W.; From Tübingen, W. Germany, Triassic, Huene (5).

†*Keichousaurus* gen. nov. (p. 73, text-figs. 1-3, pls. 1-5); type species *K. hui* sp. nov. (p. 73), Middle Triassic, Langmu, Tachai Village, S.W. Keichow Province, China; Vertebrata Palasiatica 2 1958, Young (3).

†*Kronosaurus queenslandicus* found in Queensland, now mounted and exhibited in the Museum of Comparative Zoology, Harvard, Fletcher (1); Exhibit mounted and shown in the Museum of Comparative Zoology, Romer & Lewis (3); Scapula, comparison with *Pliosaurus*, Tarlo (1).

†*Kwangsisaurus orientalis* gen. & sp. nov. (p. 77, 2 pls., 1 fig.), Lower Triassic, Kwangsi, China. Vertebrata Palasiatica 3 2 1959, Young (11).

†Nanchangosauroides sub order nov. (pp. 368, 373), for a new reptile *Nanchangosaurus q.v.*, of Sauropterygia. Mesozoic, China; †Nanchangosauridae fam. nov. of Nanchangosauroides q.v. (pp. 368, 373), Mesozoic, China; *Nanchangosaurus* gen. nov. of †Nanchangosauridae fam. nov. q.v. (pp. 368, 373), type sp. *N. suni* sp. nov. (pp. 368, 373; text-figs. 1-3, 5), Triassic, Hupeh Province, China. Acta palaeont. Sinica 7 5 1959, Wang.

†*Nothosaurus* gen. nov. (p. 382) *N. geraensis* sp. nov. for gen. indet. Kuhn 1939; Neues Jb. Geol. Palaeont. Monatsheft 1958 8, Kuhn (1).

†*Nothosaurus* cf. *rabbi* and *Nothosaurus* spp. from the Early Muschelkalk of the Winterswijk deposits, Hooijer (2); Bones from the Triassic of Tunisia, Gorce.

†*Peloneustes philarchus* comparison of scapula with that of *Pliosaurus*, Tarlo (1).

†Plesiosaurs systematic review of 36 known species only 9 of which are valid, Tarlo, L. B. (4); *P. guilemi imperatoris* fore limbs, possible swimming movements and general study, Tarlo (1).

†*Pliosaurus andreus* sp. nov. (pp. 147, 163; pl. 23; pl. 28; figs. 4-46); Oxfordian, Peterborough. Bull. Brit. Mus. (Nat. Hist.) Geol. 4 5 1960, Tarlo (4); *P. brachyspondylus* detailed study of the skeleton from the Kimmeridge Clay of Ely, Tarlo (2); *P. ferox* from the Callovian (Jurassic) of Fresne d'Argences, France, Follet; *P. macromeris* scapula which is unlike that of other Plesiosaurs, Tarlo (1); *P. portlandicus*, a marine reptile from Portland, Savage, R. J. G.

†*Simosaurus guilemi angusticeps* var. nov. p. 181, pl. 19 and text-f. 1-3, Gaildorf, W. Germany, Triassic. Palaeontographica 113A 1959, Huene (6).

†*Stretosaurus* gen. nov. (p. 40) of Pliosauridae, type sp. *Pliosaurus macromeris* Phillips (text-figs. 1-6, pls. 7-9), Kimmeridgian, Stretham near Ely. Palaeontology 2 1 1959, Tarlo (3).

†THECODONTIA

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†*Aetosauroides* gen. nov. (p. 3) of Aetosauridae (?), Stagonolepidae type sp. *A. scagliai* sp. nov. (p. 4), text-figs. 1, 2; Middle Triassic, San Juan Argentina. Rev. Assoc. pal. argent. 2 No. 1 1960, Casamiquela.

†*Argentinosaurs* gen. nov. (p. 4), of Stagonolepidae (?), Stagonolepidae, type sp. *A. bonapartei* sp. nov. (p. 4), text-figs. 3-5; Middle Triassic, San Juan Argentina. Rev. Assoc. pal. argent. 2 No. 1 1960, Casamiquela.

†*Chasmatosaurus yuani* from Wuhsiang, Shansi, Young (6).

†*Clarencea* gen. nov. p. 110 of Ornithosuchidae ? *C. gracilis* sp. nov. p. 110, figs. 47, 48, 49; Red beds Stormberg series, Clarence, Orange Free State, Africa (Triassic). Palaeont. Africana 6 1959, Brink (5).

†*Saurosichus* gen. nov. (p. 264) of Ornithosuchoidae, type sp. *S. galilei* sp. nov. (p. 265, text-figs. 3-6); Triassic, Ischigualasto San Juan, Argentina. Rev. Assoc. geol. argent. xiii No. 4 1958, Reig.

†THERAPSIDA

Therapsida (Anomodontia, Therocephalia and Ictidosauria) from China, Huene (4).

†Moschorhinidae proposed as a distinct family from Whaitsiidae to accommodate *Moschorhinus*, Hewittia and *Euchambesia*, Brink (4).

†*Aleodon brachyrhamphus* skull from the Trias of Tanganyika, Crompton (1).

†*Aneugomphus icthioceps* skeleton from the Karroo, Murraysburg district, Brink (1).

†*Cricodon metabolus* a new form from the Trias of Tanganyika, Crompton (1).

†*Dicynodon grimbeeki* cranio-osteological studies with special reference to the sphenethmoid region and cranial kinesis, Agnew; Significance of tuskless specimens, Barry.

†*Doliosaurus* gen. nov. (p. 104), Titanosuchian, Type: *D. yanshinovi* (pp. 104, 105, fig'd.); *D. adamantus* (p. 105, fig'd.), spp. nov. (— *Titanophonus potens* Efremov, pars); Upper Permian, "Kamenna Ovruga" Ishevo village, Apastovsk region, Tatar A.S.S.R., Russia. Trav. Inst. paleont. Acad. Sci. U.S.S.R. 72 1958, Orlov.

†*Gorgonops torvus* description of a complete well-preserved skull, South Africa, Manten.

†*Hewittia* gen. nov. p. 37 of Whaitsiidae classed with *Moschorhinus* q.v., *H. albanensis* sp. nov. p. 37, figs. 14, 15; *Cistecephalus*-zone beds, Cradock district, Africa. Palaeont. Africana 6 1959, Brink (4).

†*Jonkeria boonstrei* sp. nov. (p. 42, pl. and figs.); Karroo formation, Permian; Letjesbosch, Beaufort West region, S. Africa. Palaeont. Z. 33 1959, Janensch.

Kannemeyeria vanhoepeni sp. nov. p. 311, text-figs. 44a, 50c, 53, 55, 56g-e; Middle Triassic, Karroo, South Africa. Mem. Univ. Calif. 13 4 1956, Camp (1).

†*Karoovalter* nom. nov. for *Walteria* Brink & Kitch, 1951 non Mehl 1932, Kuhn (1).

†*Kingoria* gen. nov. (p. 322), Dicynodontia, type sp. *K. novacki* (p. 322, figs. 1-17), Lower Bone-bearing series, Upper Permian, S.W. Tanganyika. Proc. Zool. Soc. Lond. 132 (3) 1959, Cox. C. B.

†*Moschops kouspensis* sp. nov. p. 32, text-figs. 5-9, Die Krans, Prince Albert, Tapinocephalus zone, Permian (South African Museum Collection), **Boonstra**.

†*Moschorhinus natalensis* sp. nov. p. 42, figs. 18, 19, 20; Lystrosaurus-zone beds, N. Natal, Africa, Palaeont. Africana 6 1959, **Brink** (4).

†*Notaeluroops paucidens* small skull from the Graaff-Reinet district, Africa, **Brink** (4).

†*Notosollasia boonstrai* complete skull with lower jaw in situ from the Murraysburg district, **Brink** (4).

†*Placeras gigas* sp. nov. p. 262, text-figs. 4-41; pls. 30-33 St. Johns Arizona, Lower Chinle formation, Upper Triassic, Mem. Univ. Calif. 13 4 1956, **Camp & Welles** (2).

†*Prorubidgea brinki* sp. nov. (p. 67 figs. 21A, 23, 26, 27, 29, 30); Upper Cistecephalus zone, Ringsfontein, Murraysburg district. Palaeont. africana 6 1959, **Mantén**.

†*Scalenodontoides* gen. nov. (p. 2) of Traversodontidae, type sp. *S. macrodontes* sp. nov. (p. 2, text-figs. 1-3, pl. 1); Upper Molteno beds, Middle Triassic, Basutoland, Ann. S. Afr. Mus. 44 1957, **Crompton & Ellenberger**.

†*Sinognathus* gen. nov. Cynosuchidae, type: *S. gracilis* sp. nov. p. 124, 4 figs., Lower or Mid Trias, Peipanting, Shansi, China. Vertebata Palasiatica 3 3 1959, **Young** (12).

†*Struthiocephalus kitchingi* sp. nov. p. 39, text-figs. 10-12; from the Tapinocephalus zone, Beaufort West, Karroo. Palaeont. Africana 5 1958, **Brink** (2).

†*Thrinaxodon liorhinus* skeleton peculiarly curled, found in N. Natal, **Brink** (3).

CHELONIA

see under TESTUDINES

CROCODILIA

General Fossil.—Notes on fossil crocodilians from south eastern United States, **Auffenberg** (2); Crocodilia (Protosuchia, Mesosuchia and Eusuchia) from the Tertiary of China, **Huene** (4); Crocodile skull from the Miocene of Portugal affinities shown with *Gavialosuchus americana* from Florida, **Telles Antunes**; A second Cretaceous crocodile *Dakotaeuchus* from Kansas, **Vaughn** (1); A fossil alligator from the lower Pliocene of Oklahoma and its climatic significance, **Woodburne**.

General Recent.—General observations, figs., **Cogger** (1); Tooth replacement, **Edmund** (2); General notes on specimens in San Diego zoo, figs., **Shaw** (6).

Alligator sp. On the inner ear, figs., **Baird**; General notes, **Hutson** (1).

Alligator mississippiensis, Functional organization of left and right afferent inputs in the brain, **Berkowits & Tschirgi**; In captivity, figs., **Brook** (2); Multiple haemoglobins, **Gratzer & Allison**; As food for man, **Irvine**; Organization of the major afferent systems in the fore-brain, **Kruger & Berkowits**; On the paratympanum, **Simonetta**; [*Alligator mississippiensis*], On source and function of urinary ammonia, **Coulson & Hernandez**.

†*Caiman* sp. Of Santa Cruz, Bolivia, **Gans** (3); *Caiman* sp., On the inner ear, figs., **Baird**.

Caiman crocodilus, On tail regeneration, photos, **Dathe**; *C. crocodilus* (*sclerops*), As food for man, **Irvine**; *C. c. fuscus*, Photograph, general account, **Mertens** (5); *C. c. yacare*, In captivity, **Brook** (1).

Caiman latirostris, On glial architecture, **Contu**; Multiple haemoglobins, **Gratzer & Allison**.

Caiman niger, General observations, **Cogger** (1).

Caiman sclerops, Of Colombia, Amazonas, ecology, distribution, **Medem** (4); On hearing, **Schwartzkopff**.

Caiman yacare, Is a distinct species, description, skull figd., photographs, ecology, geographic range, **Medem** (3).

Crocodylus sp., On the paratympanum, **Simonetta**; General notes, *porosus*, *johnstoni* (figs.), *niloticus*, *robustus*, **Cogger** (1); General notes, *porosus*, of Malaya, **Hutson** (1).

Crocodylus acutus (fig.), In captivity, **Brook** (3); Of Tres Marias Islands, **Zweifel** (1).

Crocodylus cataphractus, In captivity, **Brook** (3); Photograph in nature, general account, **Mertens** (5); Of Parc National du Niokola-Koba, Senegal, **Villiers** (2).

Crocodylus johnstoni, As food for man, **Irvine**.

†*Crocodylus moreletii barumbrowni* subsp. nov. (p. 2, 2 figs.), "Treasure Island," Peten, Guatemala, Pleistocene. Amer. Mus. Novit. No. 1975, 1959, **Mook** (2).

Crocodylus naia Meyer 1795, On identity; proposed to place name under suspension of its priority at the Official Index of Registered names, **Wermuth** (2).

Crocodylus niloticus, On esterase of digestive tract, **Arvy & Bonichon** (2); In captivity, fig. 1, **Brook** (4); Notes on the insect food in Uganda, **Corbet**; As food for man, **Irvine**; Observed eating *Varanus niloticus* eggs in Natal, **Journal Nat. Parks**; With note on eating human of **Kruger National Park**. Photograph in nature, general account, **Mertens** (5); Of Parc National du Niokola-Koba, Senegal, **Villiers** (2).

Crocodylus palustris, On the heart, **Kashyap**; Skull morphology, figs., **Mathur**; Proposed use of plenary powers to validate specific name, **Mertens** (16).

Crocodylus porosus, Fig. on hunting, **Hutson** (2); Not used as food for man, **Irvine**; Systematic and nomenclature of Ceylon, *p. biporcatus* is applied to Indo-australian coasts; *p. minikanna* Deraniyagala is a synonym of *p. porosus*; the following alterations in **Wermuth & Mertens** 1961 check list, should be made: *p. porosus* = *p. biporcatus*; *p. minikanna* = *p. porosus*; *p. palustris* *kimballi* = *palustris brevisrostris*, **Mertens** (9); **Schneider** 1801, Proposal to place name in the Official List of nomina conservanda and to restrict the type locality from India to Mainland of Hither India, **Wermuth** (2); †*C. p. minikanna* from the Pleistocene of Kutchavalli, Ceylon, measuring 71 mm. long, 30 mm. deep, and 95 mm. in circumference, **Deraniyagala** (1).

Crocodylus siamensis, As food for man, **Irvine**.

†*Dacosaurus* pelvic girdle c.f. *D. Lapparenti* and *D. maximus*, **Debelmas** (2); †*D. maximus* persistence in the Neocomian of Haute-Provence, **Debelmas** (1).

†*Diplocynodon hautokiensis* teeth and vertebrae from the Headon beds (Eocene), **Anon** (2); Lower Oligocene, Niederhessen, Germany, **Gramann**.

Gavialis gangeticus, General observations, **Cogger** (1); General notes, **Hutson** (1); Photograph, head, general account, **Mertens** (5).

†*Gavialosuchus americanus lusitanicus* in the Burdigalian of Portugal, **Zbyszewski**.

†*Leidyosuchus wilsoni*, sp. nov. (p. 2 text-figs. 1, 2); Middle Eocene, Green River formation, Wyoming. Amer. Mus. Novit. No. 1933, 1959, Mook (1).

Melanosuchus niger, As food for man, Irvine; Of Colombia, Amazonas, ecology, distribution, Medem (4).

Osteolaemus tetraspis, In captivity, fig., Brock (5); Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Paleosuchus trigonatus, *palpebrosus*, Of Amazonas, Colombia, ecology, distribution, Medem (4).

†*Paralligator sungaricus* sp. nov. (pp. 277, 280, pl. 1, text-figs. 1, 2); U. Cretaceous, Sungarian Plain, Kirin Province, China. Vertebrata Palasiatica 2 4 1958, Sun.

†*Proterochampsia* gen. nov. (p. 259) of Protosuchia [probably not Notochampsidae] type sp. *Proterochampsia barriouzevii* sp. nov. (p. 260, text-figs. 1, 2); Triassic, Ischigualasto San Juan, Argentina. Rev. Asoc. geol. argent. xiii No. 4 1958, Reig.

†*Tomistoma calaritanus* in the Burdigalian of Portugal. Zbyszewski; †*T. petrolica* sp. nov. p. 241, pl. 1; Maoming Series, Uppermost Eocene, Tat'ang, Maoming, S.W. Kwangtung. Vertebrata Palasiatica 2 4 1958, Yeh, H.; *T. schlegelii*, General notes, Hutson (1); Figs. on hunting, Hutson (2).

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Sphenodon punctatus, On the inner ear, figs., Baird; Photograph, coloured photog. of head, general account, Mertens (5); On the paratympanum, Simonetta.

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SAURIA

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Agama, In vivarium, *stellio brachydactyla* (photograph), Fontejne; Of S.W. Africa, Hoesch (2); Of Morocco; *bibronii*, *runderata-mutabilis*, Pasteur & Bons (7).

Agama agama, Enzymatic activities of the erythrocytes, Stolk (6); *A. a. africana*, Growth and cyclic behaviour in Liberia, Daniel; *A. a. lionotus*, On reproduction at Lat. 0°01'N., Nanyuki, Kenya, charts, Marshall & Hook; *A. a. savatieri*, Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Agama agilis, Of Iraq, some food habit notes, Weber; *A. a. isolepis*, Of Afghanistan, Wettstein.

Agama atra, On the paratympanum, Simonetta.

Agama atricollis, Of Kruger National Park.

Agama bibronii, From Doukkala plains, Morocco, Bons (1).

Agama caucasica, Fig., of Armenia, Luppa, Müller, Nicht & Tietze; In Berlin Zoo, photo., Petzold (1); Of Iraq, some food habit notes, Weber; Of Afghanistan Wettstein.

Agama flavimaculata tournevillei, Probably in Morocco, Pasteur & Bons (7).

Agama hispidula aculeata, Of Kruger National Park.

Agama nupta, Of Afghanistan, Wettstein.

Agama pallida, Of Iraq, some food habit notes, Weber.

Agama persica, Of Iraq, some food habit notes, Weber.

Agama ruderata, From Iraq, Khalaf; Of Iraq, some food habit notes, Weber.

Agama sanguinolenta, Role in maintenance of C. Asiatic tick-recurrence, Mishchenko; Of W. Karakum, Turkestan, temperature control, Uschakow (2).

Agama stellio stellio, From Iraq, Khalaf; Of Corfu, fig., notes, Mertens (12).

Amphibolurus adelaidensis, Observations on the diet and size variation, Tyler; *A. barbatus*, As food for man, Irvine; On rearing eggs and young, figs., Rover; Of N. Island, Houtman Abrolhos, Storr (1); and *muricatus* (photograph), Of Sydney region, general account, Cogger (2); *A. reticulatus*, *maculatus gularis*, Of Ayres Rock, S. Australia, notes, Mertens (2).

Calotes, On gliding, Mertens (6); *C. emma*, Of Province of Quang-tri, C. Vietnam, Tien; *C. versicolor*, Histochemical study of lipids in oocytes, Gurraya (1); On the heart, Kashyap; Morphology of the neurosecretory cells, Pandalai; Bird nest used as nightly resort, Prakash, I.; The heart and its conducting system, figs., Prakash, R.; In terrarium, photograph, Rekum; Of Province of Quang-tri, C. Vietnam, Tien.

Chlamydosaurus kingii, Of Sydney region, general account, Cogger (2); As food for man, Irvine; Photographs general account, Mertens (5).

Draco volans, *fimbriatus*, figs., On gliding, Mertens (6); *D. volans*, Of Malaya, on gliding, fig., Tweedie.

Hydrosaurus amboinensis, Photograph, general account Mertens (5).

Japalura polygonata, Of Amami, Koba.

Leirolepis belliana, As food for man, Irvine; On gliding, Mertens (6); Of Province of Quang-tri, C. Vietnam, Tien.

Lophura amboinensis, As food for man, Irvine.

Moloch horridus, Of Ayres Rock, S. Australia, colour plate, notes, Mertens (2); Coloured photograph, and enlarged head, general account, Mertens (5).

Phoxophrys, Review, key to the five species, *borneensis* sp. nov. [p. 222, head and tail fig.] type loc.: Bundu Tuhan, Mt. Kina Balu, N. Borneo, *cephalum* [head and tail fig.], *nigribabris* [head and tail fig.], *spiniceps*, *tuberculata*, Copeia, 1960 No. 3, Inger.

Phrynocephalus sp., Seasonal changes of fat bodies and gonads, of Arax R. valley, Armenia, Darevsky (1); *P. helioscopus*, *guttatus*, *mystaceus*, Of W. Kazakhstan, Russia, Paraskiv & Butovski; *P. helioscopus*, fig., Of Armenia, Luppa, Müller, Nicht & Tietze; In Berlin Zoo, photo., Petzold (1); On the paratympanum, Simonetta; and *P. interscapularis*, Role in maintenance of C. Asiatic tick recurrence, Mishchenko; *P. mystaceus*, Photographs, general account, Mertens (5); *P. mystaceus* (photo), *interscapularis*, in W. Karakum, Turkestan, *helioscopus* (photo), temperature control, Uschakow (2); *P. ornatus*, Of Afghanistan, Wettstein.

Physignathus gilberti centralis, In captivity, fig., Stettler; *P. lesueurii*, Of Sydney region, general account, Cogger (2); As food for man, Irvine.

Uromastix, Of Morocco, key to species of Africa, *princeps*, *ornatus*, *macfadyeni*, *geyri*, *ocellatus*, *egyptius*, *acanthinurus* (of African Sahara), the following are synonyms of *acanthinurus* (*a. pluriscutata* Fej, *a. nigricentris* R. & H., *a. nigerrimus* Hart), *Pasteur & Bons* (7); *U. hardwicki*, On a Kutch, India, population, *Abdullahi* (2); Histochemical study of lipids in oocytes, *Guraya* (1); As food for man, *Irvine*; *U. microlepis*, From Iraq, *Khalaf*.

†AIGIALOSAURIDAE

†*Proaigialosaurus* gen. nov. of Aigialosauridae (p. 381), *P. huenei* sp. nov. (p. 381, text-fig. 1), Jurassic, Germany. *Neumes Jb. Geol. Palaeont. Monatsb.* 1958, *Kuhn*, (1).

AMPHISBAENIDAE

Amphisbaenidae: A taxonomic revision of the Trogonophinae and a functional interpretation of the adaptive pattern, figs., key to species of aerodont amphisbaenids; *Trogonophis wiegmanni* (synonyms are *Amphis. elegans* Gervais 1835; *Trog. w. maroccana* Werner 1921); *Pachycalamus brevis*; *Diplometopon zarudnyi*; *Agamodon anguliceps*; *arabicus*, *compressus* (*anguliceps immaculatus* is a synonym); *Trogonophis w. maroccana* is untenable and a synonym of *A. elegans*, *Gans* (1); Key to genus and species of Grand Chaco and Paraguay, *Hellmich*; Of Morocco, *Pasteur & Bons* (7).

Amphisbaena, Of Grand Chaco and Paraguay, *alba*, *albicinctulata*, *bohlei*, *borellii*, *boulengeri*, *camura*, *carucci*; *darwini* *darwini*, *knightsii*, *matogrossensis*, *mertensii*, *plumbea*, *silvestrii*, *steindachneri*, *vermicularis*, *kingii*, *Hellmich*; *A. munoai*, sp. nov. Rio Grande do Sul, Sur, Montevideo, *Comm. Zool. Mus. hist. nat. Montevideo*, iv, 84 1960, p. 3, map, 13, figs, *Klappenbach*. *A. quadrifrons capensis*, *langi*, Of Kruger National Park.

Blanus cinereus, From Doukkala plains, Morocco, *Bons* (1); Of Morocco, *Pasteur & Bons* (7).

Diplometopon zarudnyi, From Iraq, *Khalaf*; Photograph, general account, *Mertens* (5).

Leposternon, Of Grand Chaco and Paraguay, *affine*, *borellii*, *boulengeri*, *camerani*, *carcani*, *laticeps*, *latifrontale*, *microcephalum*, *onychocephalum*, *pfefferi*, *phocaena*, *strauchii*, *Hellmich*.

Monopeltis sp. from nr. Salisbury, *Siemens*; *M. capensis*, On the paratympnum, *Simonetta*.

Rhineura floridana, On the paratympnum, *Simonetta*, †*R. hatcheri*, structure of the skull from the Oligocene of Nebraska, *Brattstrom* (2).

Trogonophis wiegmanni maroccana, From Doukkala plains, Morocco, *Bons* (1); *T. wiegmanni wiegmanni*, *w. maroccana* (is reinstated), Of Morocco, *Pasteur & Bons* (7).

ANELTROPIDAE

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Typhlosaurus aurantiacus, Of Kruger National Park.

ANGUIDAE

Anguis bessi Andrzejowski, 1832, application to suppress specific name for Law of Priority, *Mertens & Wermuth* (18).

Anguis fragilis, In Zealand, Holland, *Bree*; Of Sweden, coloured fig. general observations, *Curry-Lindahl*; On development of hypophyseal vascular system, figs., *Enemar*; In London area, *Fitter*; Early year record in Dorset, *Gooch*; Of the Linz autobahn area, *Hamann*; Photograph, general account, *Mertens* (5); On rotation

of the eggs in the uterus, *Raynaud* (1); On sex-differentiation of the embryos, figs., *Raynaud* (2); Observations on development of sex-organs, figs., *Raynaud* (3); On rotation of the eggs in the oviduct and orientation of the embryo, *Raynaud & Ancel* (4); On behaviour in captivity, *Reyst* (3); On the paratympnum, *Simonetta*; Of Börzöny, Hungary, *Szabó*; *A. f. fragilis*, Photograph, of Europe, general, range, growth, *Mertens* (4).

Celestus pleii, On the paratympnum, *Simonetta*.

†*Dimetopisaurus* gen. nov. (p. 132) of Diploglossinae type sp. *Dimetopisaurus wyomingensis* sp. nov. (p. 132, pl. 51), Eocene, Elk Mountain, Tabernacle Butte area, Wyoming. *Bull. Amer. Mus. nat. Hist.* 117 3 1959, *Recht*, M. K. & *McGrew*, P. O.

Diploglossus lessonae, coloured photograph, general account, *Mertens* (5); *D. tenuifasciatus*, In vivarium, photograph, *Reyst* (2, 3).

Gerrhonotus coeruleus, *multicarinatus*, Multiple haemoglobins, *Gratzer & Allison*; *G. m. multicarinatus*, Feeding on *Sceloporus* and minnows in captivity, *Skahan*; *G. m. webbi*, On specimen with a double tooth, figs., *Schmidt*, W. J.; *G. m. scincicauda*, On behaviour in captivity, *Reyst* (3).

Ophiodes intermedius, Of Paraguay and Argentina, *Hellmich*.

Ophisaurus apodus, Photograph, general account, *Mertens* (5); On melanism, *Mertens* (10); Of Corfu, notes, *Mertens* (13); On behaviour in captivity, *Reyst* (3); Of Armenia, *Luppa*, *Müller*, *Nicht* & *Tietze*; †*O. attenuatus*, From the Pleistocene, Oklahoma, *Etheridge* (3); *O. attenuatus longicauda*, Range extended 50–70 mls. south on Gulf Coast, Florida, *Le Buff*; *O. koelikeri*, Of Morocco, *Pasteur & Bons* (7); †*O. pannonicus* from the Pliocene of Poland, *Młynarski* (3); *O. ventralis*, On the inner ear, figs., *Baird*; On reflectivity of the integument, *Hutchison & Larimer*.

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Anniella pulchra, On the paratympnum, *Simonetta*.

†BROILISAURIDAE

†*Eichstättisaurus* nom. nov. for *Broilisaurus* Hoffst. 1953 non *Kuhn* 1938, *Kuhn* (1).

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Brookesia spectrum boulengeri, Coloured photograph, general account, *Mertens* (5).

Chamaeleo, Comparison, in 6 species, of chromosome formulae, *Matthey & Brink* (2); In captivity, *bitaeniata ellioti*, fig., and other species, *Bustard* (3); In captivity, *hoehnelii*, fig., *jacksoni*, fig., *bitaeniata ellioti*, fig., and other species, *Bustard* (4); On comparative cytology, *jacksoni*, *quadricornis*, *wiedersheimi*, *monoceras*, *willai*, *calcaratus*, *bitaeniatus*, *chamaeleon*, *Matthey* (1); Notes on terrarium conditions, *dilepis* (photograph), *Smit*.

Chamaeleo basiliscus, In terrarium, pairing, eggs, photographs, *Schipper*; Notes on the eggs, incubation and young, *Shaw* (1).

Chamaeleo calcaratus, Chromosome formula, *Matthey & Brink* (2).

C. c. chamaeleo, Of Morocco, *Pasteur & Bons* (7).

Chamaeleo dilepis, Photograph, general account, *Mertens* (5); *C. d. dilepis*, Of Kruger National Park.

Chamaeleo jacksoni, Chromosome formula, *Matthey & Brink* (2); Coloured photograph, general account, *Mertens* (5).

Chamaeleo lateralis, Histochemistry of the hypophysis, **Saint Girons, H. (1).**

Chamaeleo monoceras, Chromosome formula, figs., **Matthey & Brink (2).**

Chamaeleo oustaleti, On parasitism, **Brygoo & Dodin (1).**

Chamaeleo pumilus, On rearing young, **Rover.**

Chamaeleo quadricornis, Chromosome formula, **Matthey & Brink (2).**

Chamaeleo senegalensis senegalensis, Of Parc National du Niokolo-Koba, Senegal, **Villiers (2).**

Chamaeleo wiedersheimi, Chromosome formula, figs., **Matthey & Brink (2).**

Chamaeleo willsi, Chromosome formula, **Matthey & Brink (2).**

Chamaeleo zeylanicus, On the heart, **Kashyap.**

Microsaura pumila, In captivity, **Bustard (3, 4);** On the paratympnum, **Simonetta.**

Rhampholeon platyceps, On the paratympnum, **Simonetta.**

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Cordylus sp., On the paratympnum. **Simonetta;** *C. cataphractus*, Photograph, general account, **Mertens (5);** On behaviour in captivity, **Reyst (3);** On cannibalistic tendency, figs., **Reyst (4);** *C. cordylus niger*, Feeding on insects and worms in captivity, **Skehan;** Figs., *cataphractus*, fig., in captivity, **Bustard (2);** *C. jonesii*, Of **Kruger National Park;** *C. polyzonus*, Ultrastructure of the pineal eye, **Steyn.**

Gerrhosaurus nigrolineatus, Photograph, general account, **Mertens (5);** *G. validus validus*, *flavipularis flavipularis*, *nigrolineatus*, *major grandis* (?), Of **Kruger National Park.**

Platysaurus minor orientalis, *guttatus guttatus*, Of **Kruger National Park.**

EUBLEPHARIDAE

See under GEKKONIDAE.

GEKKONIDAE

On the periotic labyrinth, figs., **Baird;** Key to genera and species of the Grand Chaco, Brazil and Paraguay, **Hellmich;** The comparative morphology of the axial skeleton in the Australian Gekkonidae, [material used under genera and species], figs., **Holder;** Of Morocco, **Pasteur & Bons (7);** The comparative osteology of Australian geckos and its bearing on their morphological status, figs. [material used is itemized under genera], **Stephenson.**

Afroedura transvaalica, Of Africa, comparative morphology of axial skeleton, **Holder.**

Agamura persica, Of Afghanistan, **Wetstein.**

Alsophylax pipiens, Of W. Kazakhstan, Russia, **Paraskiv & Butovski.**

Aristelliger praesignis, Morphology of the inner ear, **Hamilton;** Of Jamaica, fig., comparative morphology of axial skeleton, **Holder;** Of Jamaica, comparative osteology, **Stephenson.**

Carphodactylus laevis, Comparative morphology of axial skeleton, fig., **Holder;** Comparative osteology, **Stephenson.**

Coleonyx variegatus, brevis, Morphology of the inner ear, **Hamilton;** *C. brevis*, Distribution in Coahuila, **Williams, K. L., Smith & Chrapliwy.**

Cosymbotus, On gliding, **Mertens (6);** *C. platyurus*, On morphology and histology of thyroid gland, **Soetjijpto.**

Crossobamon eversmanni, In W. Karakum, Turkestan, temperature control, **Uschakow (2).**

Cyrtodactylus (*Gymnodactylus*, *Alsophylax*) *persicus*, On Kabul, Afghanistan specimen, **Wetstein-Wester-sheimb.**

Diplodactylus michaelsoni, strophurus, tessellatus, vittatus, Comparative morphology of axial skeleton, figs., **Holder;** *D. michaelsoni, tessellatus, vittatus*, Comparative osteology, **Stephenson;** *D. strophurus spinigerus*, Photograph, general account, **Mertens (5);** *D. vittatus*, Of Sydney region, general account, **Cogger (2).**

Ebenavia horni, Comparative morphology of axial skeleton, **Holder;** Comparative osteology, **Stephenson.**

Eublepharis macularius, Photograph, general account, **Mertens (5);** and *hardwickii*, Of Afghanistan, **Wetstein.**

Geckonia chazaliae, Of Morocco, **Pasteur & Bons (7).**

Gehyra mutilata, Of Amami, **Koba.**

Gekko gekko, Photograph, head, general account, **Mertens (5);** In terrarium, **Rekm.**

Gekko japonicus, Of Amami, **Koba;** From Tokara Ids., **Shibata;** Comparative histology of thyroid, **Yamamoto.**

Gekko rhacophorus, On gliding, **Mertens (6).**

Gekko vittatus, Of New Guinea, comparative morphology of axial skeleton, **Holder;** Of New Guinea, comparative osteology, **Stephenson.**

Gonatodes fuscus, Morphology of the inner ear, **Hamilton;** Of Jamaica, figs., comparative morphology of axial skeleton, **Holder;** Of Jamaica, comparative osteology, **Stephenson.**

Gymnodactylus antillensis, Of Islas las Aves, Venezuela, figs., **Aleman.**

Gymnodactylus borelli, Of Grand Chaco and Paraguay, **Hellmich.**

Gymnodactylus caspius, Role in maintenance of C. Asiatic tick-recurrence, **Mischchenko;** In W. Karakum, Turkestan, temperature control, **Uschakow (2);** Of Afghanistan, **Wetstein.**

Gymnodactylus fedtschenkoi, Of Afghanistan, **Wetstein.**

Gymnodactylus horridus, Of the Grand Chaco and Paraguay, **Hellmich.**

Gymnodactylus kotschyi, Morphology of the inner ear, **Hamilton;** Of Iraq, **Weber;** *G. k. danilewskii*, A new description, in Russian, **Shcherbak;** Description, figures, natural history both in nature and captive, in Crimea, **Szczerbak.**

Gymnodactylus miltii, Photograph, general account, **Mertens (5).**

Gymnodactylus miliusii, In captivity, fig., **Bustard (7).**

Gymnodactylus scaber, From Iraq, **Khalaf;** Of Iraq, some food habit notes, **Weber.**

Hemidactylus brooki angulatus, Of Parc National du Niokolo-Koba, Senegal, **Villiers (2);** *H. b. haitianus*, On reflectivity of the integument, **Hutchison & Larimer.**

Hemidactylus flaviviridis, Of Jibuti, French Somaliland, **Hoofien;** From Iraq, **Khalaf.**

Hemidactylus frenatus, Fig., comparative morphology of axial skeleton, **Holder**; On migration at dusk in Malaya, **Reid, J. A.**; On morphology and histology of thyroid gland, **Soetjito**; Of New Guinea, comparative osteology, **Stephenson**; Of Province of Quáng-tri, C. Vietnam, **Tien**.

Hemidactylus garnoti, Of New Ireland, comparative morphology of axial skeleton, **Holder**.

Hemidactylus karenorum, Of Province de Quáng-tri, C. Vietnam, **Tien**.

Hemidactylus leschenaulti, On the heart, **Kashyap**.

Hemidactylus mabouia, Morphology of the inner ear, **Hamilton**; Of **Kruger National Park**.

Hemidactylus persicus, From Iraq, **Khalaf**.

Hemidactylus turcicus, On the retina, figs., **Tansley**; Of Iraq, some food habit notes, **Weber**; *H. t. turcicus*, Of Jibuti, French Somaliland, **Hooftien**; Of Lampedusa, Linosa, pls., biogeography, **Lanza & Bruzzone** (2); Of Morocco, **Pasteur & Bons** (7); From N. Mexico, **Williams, K. L., Smith & Chrapliwy**.

Heteronota bincoi, Comparative morphology of axial skeleton, **Holder**; Of Ayres Rock, S. Australia, notes, **Mertens** (2); Comparative osteology, **Stephenson**; Of N. Island, Houtman Abrolhos, **Storr** (1).

Homonota darwini, *whitii*, Of Grand Chaco and Paraguay, **Hellich**.

Homopholis wahlbergii, Of **Kruger National Park**.

Hoplodactylus duvaucelii, *pacificus*, Of New Zealand, comparative morphology of axial skeleton, **Holder**; Of New Zealand, comparative osteology, **Stephenson**.

Lepidoblepharis xanthostigma, Morphology of the inner ear, **Hamilton**.

Lepidodactylus guppyi, *woodfordii*, Of the Solomon Islands; *lugubris*, Of New Hebrides, comparative morphology of axial skeleton, **Holder**; *L. woodfordii*, Of Solomon Ids., comparative osteology, **Stephenson**.

Lucasius damaeus, Comparative morphology of axial skeleton, **Holder**; Comparative osteology, **Stephenson**.

Lygodactylus capensis capensis, Of **Kruger National Park**; *L. picturatus*, On the sub-species: *p. chobiensis* range extended to Congo Republic; *p. gutturalis* range extended into Rhodesia; *p. keniensis*; *p. mombasicus*; *p. picturatus*; *p. scorcelii*, black specimen described, figs., **Pasteur** (6).

Nautilinus elegans, Of New Zealand, comparative morphology of axial skeleton, **Holder**; Of New Zealand, comparative osteology, **Stephenson**.

Nephurus asper, Of Ayres Rock, S. Australia, col. pl., notes, **Mertens** (2); *N. asper* (fig.), *laevis*, Comparative morphology of axial skeleton, **Holder**; Comparative osteology, **Stephenson**; *N. laevis*, Of Ayres Rock, S. Australia, notes, **Mertens** (2); *N. levis*, In captivity, fig., **Bustard** (7).

Oedura lesueurii, Of Sydney region, general account, **Cogger** (2); *O. lesueurii* (fig.) *marmorata*, *monilis*, Comparative morphology of axial skeleton, **Holder**; *O. lesueurii*, *marmorata*, Comparative osteology, **Stephenson**.

Pachydactylus, Of S.W. Africa, **Hoesch** (2); *P. bibroni*, In captivity, fig., **Bustard** (7); *P. bicolor*, Photographs, young and adult, general account, **Mertens** (5); *P. punctatus punctatus*, *capensis capensis* (1), *bibroni*, Of **Kruger National Park**; *P. weberi gariesensis*, On the paratypanum, **Simonetta**.

Palmatogeco rangei, Of S.W. Africa, **Hoesch** (2); Coloured photograph, general account, **Mertens** (5).

Peropus mutilatus, On morphology and histology of thyroid gland, **Soetjito**; *P. oceanicus* (fig.), *variegatus* (fig.), comparative morphology of axial skeleton, **Holder**; Comparative osteology, **Stephenson**; *P. variegatus*, Of Ayres Rock, S. Australia, notes, **Mertens** (2).

Phelsuma, On the biology; *barbouri*, 2nd record, Tsiafajavona, Madagascar, **Pasteur** (1); *P. madagascariensis*, Coloured photograph, general account, **Mertens** (5).

Phyllodactylus, Of Galapagos, **Scott**.

Phyllodactylus eliae, From Iraq, **Khalaf**; Of Iraq, some food habit notes, **Weber**.

Phyllodactylus europaeus, In the Iles d'Hyeres, France, **Knoepfler**; Of Galita Ids., Tunisia, **Lanza & Bruzzone** (1).

Phyllodactylus guntheri, Of Norfolk Island, fig., comparative morphology of axial skeleton, **Holder**.

Phyllodactylus homolepidurus, Morphology of the inner ear, **Hamilton**.

Phyllodactylus lanei, From Mt. Tequila, Jalisco, **Grant & Smith** (6); Of Tres Marias Ids., plate, **Zweifel** (1).

Phyllodactylus marmoratus, fig., comparative morphology of axial skeleton, **Holder**; Comparative osteology, **Stephenson**; Of N. Island, Houtman Abrolhos, **Storr** (1).

Phyllodactylus tuberculatus, Redescribed, type locality restricted to village of California, Nicaragua; *eduardofischeri* is considered a synonym; *insularis* sp. nov. [p. 9], type loc.: Half Moon Cay., British Honduras, *Herpetologica* 16 1 1960, **Dixon**.

Phyllopezus pollicaris przewalski, Of Santa Cruz, Bolivia, **Gans** (3); Of the Grand Chaco, Brazil and Paraguay, **Hellich**.

Phyllurus cornutus (fig.), *militi* (fig.), *platurus* (figs.), comparative morphology of axial skeleton, **Holder**; Comparative osteology, **Stephenson**; *P. platurus*, *militi*, Of Sydney region, general account, **Cogger** (2).

Pristurus rupestris, Jibuti, French Somaliland, **Hooftien**.

Ptenopus garrulus, fig., Of S.W. Africa, **Hoesch** (2).

Ptychozoon kukli, Photographs, upper and ventral views, general account, **Mertens** (5); On gliding, fig., **Mertens** (6); Of Malaya, on gliding, fig., **Tweedie**.

Ptyodactylus hasselquisti, From Iraq, **Khalaf**; Photograph, head, neck, fingers, general account, **Mertens** (5); *P. h. hasselquisti*, Of Jibuti, French Somaliland, **Hooftien**; Of Iraq, some food habit notes, **Weber**; *P. h. oudrii*, Of Morocco, **Pasteur & Bons** (7).

Quedenfeldtia trachyblepharus, Of Morocco, **Pasteur & Bons** (7).

Rhoptropus, Of S.W. Africa, **Hoesch** (2).

Rhynchoedura ornata, Comparative morphology of axial skeleton, **Holder**; Comparative osteology, **Stephenson**.

Saurodactylus, Observations on the pupil, **Pasteur** (2); *Saurodactylus fasciatus*, *mauritanicus*, *brosseti*, From Doukkala plains, Morocco, **Bons** (1); Of Morocco, **Pasteur & Bons** (7).

Sphaerodactylus g. glaucus, From Teapa, Tabasco, **Smith, H. M.** (1); *S. macrolepsis*, Morphology of the inner ear, **Hamilton**; *S. parkeri*, Of Jamaica, figs., comparative morphology of axial skeleton, **Holder**; Of Jamaica, comparative osteology, **Stephenson**; *S. pictus*, On status, and notes on distribution of *sputator* and *sabannus*, figs., **King**.

Stenodactylus, Is not found in coast zone, n. of Goulmine, Morocco, **Pasteur** (3); *S. petrii*, *stenodactylus mauritanicus*, Of Morocco, **Pasteur & Bons** (7); *S. steno-*
dactylus (elegans), From Gaziantep, Syrian Goenze, **Wettstein-Westersheimb**.

Tarentola annularis, Of Parc National du Niokolo-Koba, Senegal, **Villiers** (2); *T. a. annularis*, Of Jibuti, French Somaliland, **Hootien**; *T. annularis-ephippasia*, *neglecta*, *hoggarensis panousei*, *mauritanica*, Of Morocco, **Pasteur & Bons** (7); *T. mauritanica*, Morphology of fingers and locomotion, figs., **Gourvest**; In captivity, **Klinstra**; Photograph, general account, **Mertens** (5); On the retina, figs., **Tansley**; *T. m. mauritanica*, From Doukkala plains, Morocco, **Bons** (1); Of Lampedusa, Linoia, figs., biogeography, **Lanza & Bruzzone** (2).

Teratolepis fasciata, On the heart, **Kashyap**.

Teratoscincus scincus, Role in maintenance of C. Asiatic tick-recurrence, **Mishchenko**; In W. Karakum, Turkistan, temperature control, **Uchakov** (2).

Thecadactylus rapicauda, Morphology of the inner ear, **Hamilton**.

Tropicolotes, Is not found in coast zone n. of Goulmine, Morocco, **Pasteur** (3); *T. nattereri*, Is probably a valid species, **Pasteur** (4); *T. tripolitanus*, The chondrocranium, figs., **Kamal**; *T. t. algericus*, Of Morocco **Pasteur & Bons** (7).

Uroplatus fimbriatus, Coloured photograph, general account, **Mertens** (5); On gliding, fig., **Mertens** (6).

†*Yabeinosaurus tenuis*, new locality along the Chinchou-Chenteh railroad, Upper Jurassic or Lower Cretaceous, **Young** (4).

GERRHOSAURIDAE

See under CORYLIDAE.

HELODERMATIDAE

†*Eurheloderma gallicum* gen. & sp. nov., Helodermatidae (pp. 776, 777, text-f. 1-6), Phosphorites of Quercy, Eocene-Oligocene, France. **Bull. Soc. geol. Fr.** (6) 7 6 1958, **Hoffstetter** (1).

Heloderma horridum, On hematologic and biochemical findings on blood and plasma, **Zarafonetis & Kalas**; *H. suspectum*, Photograph, general account, **Mertens** (5).

IGUANIDAE

Of the Galapagos, **Agustin**; On the periotic labyrinth, figs., **Baird**; Patterns of display, **Carpenter** (4); Key to genera and species of the Grand Chaco, Bra il and Paraguay, **Hellmich**; General note on history and observations on species in Zool. Soc. San Diego, figs., **Shaw** (5).

†*Aciprion formosum*, a nearly complete skull from the Oligocene of Wyoming, **Brattstrom** (3).

[*Amblyrhynchus*], On salt glands, **Schmidt-Nielsen**; *Amblyrhynchus cristatus*, As food for man, **Irvine**; Figs., observation on races, **Scott**; Photograph of ♂ fighting, and c. *venustissimus*, coloured photog., general account, **Mertens** (5).

Anisolepis undulatus, Of Grand Chaco and Paraguay, **Hellmich**.

Anolis, In terrarium, several species mentioned, **Gouda**; Species breeding notes, **Molle**; On colour and colour-changing, *carolinensis*, *chloro-cyanus*, *distichus*, *semitaeniatus*, *lineatus* (col. photograph), **Wijffels** (1); Behaviour and reactions, several species mentioned, *b. gingivinus*, *b. sabanus*, photographs, **Wijffels** (3).

Anolis allisoni, Inter- and intraspecific behaviour, **Ruibal**.

Anolis allogus, Inter- and intraspecific behaviour, **Ruibal**.

Anolis bimaculatus, In vivarium, **Meijer**.

Anolis carolinensis, On the retina, figs., **Ali**; Effects of background colour on daily colour rhythm, **Gordon, C., & Fox**; Multiple haemoglobins, **Gratzer & Allison**; Malaria in Georgia specimens, **Jordan**; On gliding, **Mertens** (5); Defensive colour warning behaviour towards a wasp, **Meyerriecks**; Parietal eye and nerve, **Ortman**; In terrarium, **Rekum**; Enzymatic activities of the erythrocytes, **Stolk** (6); *A. c. carolinensis*, The influence of moisture on variation in the eggs and hatchlings, **Gordon, R. E.** (1); On reflectivity of the integument, **Hutchison & Larimer**; *A. c. poratus*, On rearing young, **Rover**.

Anolis christophei, sp. nov., type locality, at or near the Citadel of King Christophe, Cap Haitien, Haiti, **Breviera** No. 117, 1960 p. 2, fig. of mentals, **Williams, E. E.** (2).

Anolis chrysolepis meridionalis, Of Paraguay, **Hellmich**.

Anolis c. crassulus, From Guatemala, **Minton & Smith**.

Anolis cristatellus, On male of Virgin Ids., with bifurcated tail, figure, **Scott**; Study of the neuromuscular spindle, **Szepeisenwol**.

Anolis cupreus, From Costa Rica, **Minton & Smith**.

Anolis homolechis, Inter- and intraspecific behaviour, **Ruibal**.

Anolis intermedius, From Costa Rica, **Minton & Smith**.

Anolis lucius, Inter- and intraspecific behaviour, **Ruibal**.

Anolis nannodes, Cope 1864, Request for a ruling on lectotype selection, **Smith, H. M. & Follett** (4).

Anolis nebuloides, From Urique, Chihuahua, Mexico, **Tanner & Robinson** (3).

Anolis nebulosus, From Jalisco, **Grant & Smith** (6); Of Tres Marias Ids., plate, **Zweifel** (1).

Anolis polylepis, From Costa Rica, **Minton & Smith**.

Anolis ricordii, Photograph, general account, **Mertens** (5).

Anolis sagrei, Inter- and intraspecific behaviour, **Ruibal**; On the paratypanum, **Simonetta**.

Aptycholaemus longicauda, Of Grand Chaco and Paraguay, **Hellmich**.

Basiliscus basiliscus, *galeritus*, From Costa Rica, **Minton & Smith**; *B. plumifrons*, Photograph head; *basiliscus*, photograph bipedal running, general account, **Mertens** (5); *B. vittatus*, Photograph, general observations in B. Honduras, **Neill** (2).

Callisaurus draconoides gabbi, On reflectivity of the integument, **Hutchison & Larimer**.

Conolophus subcristatus, As food for man, **Irvine**; Fig., **Scott**.

Corythophanes cristatus, Photograph, general account, **Mertens** (5); Photograph, general observations in B. Honduras, **Neill** (2).

Crotaphytus collaris, From Cragin Quarry, Kansas, **Etheridge** (2); The respiratory mechanism, **Templeton & Dawson** (2); *C. c. collaris*, On reflectivity of the integument, **Hutchison & Larimer**; *C. c. baileyi*, Notes on the feeding, **Banta** (2); From Zapata, Coahuila, **Williams, K. L., Smith & Chrapliwy**.

Ctenoblepharis schmidtii, sp. nov., type loc., 40 mls. E. of San Pedro, Antofagasta Province, Chile, key to species of Chile, *Fieldiana Zool.* 39 (37) 1960, p. 407, photograph, Marx, H. (1).

Ctenosaura acanthura, As food for man, Irvine; *C. hemilopha*, From Urique, Chihuahua, Mexico, Tanner & Robinson (3); *C. pectinata*, Of Tres Marias Ids., plate, Zweifel (1).

Dipsosaurus dorsalis, On reflectivity of the integument, Hutchison & Larimer; Respiration and water loss at higher temperatures, figs., Templeton (1).

Gambelia wislizeni wislizeni, Southward extension in Chihuahua, Williams, K. L., Smith & Chrapliwy.

Holbrookia maculata, From Cragin Quarry area, Etheridge (2); subsp., Of southern New Mexico and Texas, Sabbath (1); *H. m. maculata*, Of S. Dakota, Fishbeck & Underhill; *H. m. bunkeri*, *m. dickersonae*, From Chihuahua, Williams, K. L., Smith & Chrapliwy; *H. texana*, From Cragin Quarry area, Etheridge (2); On reproductive cycle in females, Johnson.

Iguana iguana, On reflectivity of the integument, Hutchison & Larimer; Acid and alkaline phosphatases in normal and atrophied muscle, figs., Stolk (1); Muscular dystrophy, an aberration of the connective tissue, figs., Stolk (2); Topographical distribution of glycogen in the brain of *I. iguana*, Stolk (3); Changes in the topographical distribution of glycogen in the brain in dependence on the environmental temperature, Stolk (4); Diurnal changes in the topographical distribution of glycogen in the brain, Stolk (5); Enzymatic activities of the erythrocytes, Stolk (6); Topographical distribution of glycogen in the brain and accumulation disease, Stolk (7); Induction of Hepatic cirrhosis by 3-monohydroxycholelonic acid treatment, Stolk (8); Effects of temperature on glycogen in brain, Stolk (9); Diurnal changes in the topographical distribution of glycogen in the brain, Stolk (10); and *delicatissima*, As food for man, Irvine; *I. i. iguana*, Of Gran Chaco and Paraguay, Hellmich; In terrarium, photograph, Wijffels (2).

†*Iguanosaurosaurus* nom. nov. for *Iguanosauros* Kuhn 1944 non Ritgen 1828, Kuhn (1).

Laemactis deborrei, Photograph, general observations in B. Honduras, Neill (2).

Leiocephalus, Diagnosis of genera and relationships; geographic distribution, *caducus*, from Salta, Argentina discussed, figd., and *Scartiscus liocephaloides*, Werner is here considered a junior synonym, Gallardo; Of Grand Chaco and Paraguay, *caducus*, *liocephaloides*, Hellmich; *L. raviceps*, On variation; *r. uezelli*, subsp. nov., type localities, 18.2 kilom. E. of Siboney, Oriente Prov., Cuba, (p. 70), *r. klinikowskii*, subsp. nov., type loc.: 4.5 kilom. S.W. Varadero, Mantanzas Prov. Cuba, paratypes same loc. and 5.5 kilom. S.W. of Varadero, Proc. biol. Soc. Wash. 73 1960, figs., Schwartz, A. (1); *L. stictigaster lucianus*, subsp. nov., type loc.: Playa Santa Lucia, Camagüey Prov. Cuba, paratypes from same loc. and (Playa) Santa Lucia, E. of Bahía de Nuevitas, Camagüey Prov., Proc. biol. Soc. Wash. 73 1960, p. 104, Schwartz, A. (2).

Leiosaurus paronae, Of Gran Chaco and Paraguay, Hellmich.

Liolaemus, Of Grand Chaco, Brazil, *bibronii* (Of Argentina); *chacoensis* (Of Chaco Paraguay); *darwini* (of Patagonia); *elongatus* (of Argentina); *fuscus* (of Chile); *goetschi*; *kriegi* (of Patagonia); *pictus argentinus*, *rothi*, *wiegmanni*, Hellmich.

Phrynosoma cornutum, Ultramicroscopic structure of kidney, Anderson, E.; Histochemistry and composition of male reproductive tract as affected by seasonal variation, figs., Cavazos & Feagans (1); Effects of seasonal variation on histochemistry and composition of genital system, Cavazos & Feagans (2); From Cragin Quarry area, Etheridge (2); On reflectivity of the integument, Hutchison & Larimer; Photograph, general account, Mertens (5); Distribution in Kansas, Legler (1).

Phrynosoma douglassi brevirostre, Of S. Dakota, Fishbeck & Underhill.

Phrynosoma modestum, From Cragin Quarry area, Etheridge (2); Westward range extension in Zacatacas, Williams, K. L., Smith & Chrapliwy.

Phrynosoma o. orbiculare, From Urique, Chihuahua, Mexico, Tanner & Robinson (3).

Phrynosoma platyrhinos caldiarum, On reflectivity of the integument, Hutchison & Larimer.

Plica stejnegeri, Of Argentina, Hellmich.

Polychrus acutirostris, Of Grand Chaco and Paraguay, Hellmich; Photograph, general account, Mertens (5); (Photograph), and *marmoratus*, In terrarium, Rekm; *P. marmoratus*, In vivarium, photograph, Meijer.

Proctotretus azureus pectinatus, Of Grand Chaco and Paraguay, Hellmich.

Sauromalus obesus, Multiple haemoglobins Gratzner & Allison; In terrarium, Hoovers & Roon (2); As food for man, Irvine; *S. o. obesus*, On reflectivity of the integument, Hutchison & Larimer.

Scartiscus liocephaloides Werner is considered a synonym of *Leiocephalus caducus*, Gallardo.

Sceloporus bulleri, From Jalisco, new locality records, also notes on young, Grant & Smith (6).

Sceloporus chrysostictus, General observations in B. Honduras, Neill (2).

Sceloporus clarki uriquensis, subsp. nov., type localities, Urique, Chihuahua, Mexico, Gt. Basin. Nat. 19 4, 1960, p. 77, head fig., Tanner & Robinson (3).

Sceloporus cyanogenys, Photograph, on behaviour in captivity, Reyst (3).

Sceloporus d. dugesi, From Jalisco, Grant & Smith (6).

Sceloporus graciosus gracilis, On presence in Del Norte Co., California, now recorded from 5 miles E. of town of Smith River, Divide Area, Pimentel (2); *S. g. graciosus*, In southern New Mexico and Texas, on colour and habitat, Sabbath (1).

Sceloporus grammicus disparilis, From Durango, Williams, K. L., Smith & Chrapliwy.

Sceloporus heterolepis, From Jalisco, Grant & Smith (6).

Sceloporus horridus albiventris, From Jalisco, Grant & Smith (6).

Sceloporus jarrovi, On parturition and behaviour at birth, Carpenter (5).

Sceloporus l. lundelli, Photograph, general observations in B. Honduras, Neill (2).

Sceloporus maculosus, From Coahuila, Williams, K. L., Smith & Chrapliwy.

Sceloporus magister magister, On reflectivity of the integument, Hutchison & Larimer; *S. m. bimaculosis*, From Chihuahua and Coahuila, Williams, K. L., Smith & Chrapliwy.

Sceloporus malachiticus acanthinus, m. *emagadinus*, From Guatemala, m. *malachiticus*, from Costa Rica and El Salvador, Minton & Smith.

Sceloporus merriami australis, subsp. nov., type loc. 15.6 mls. E. of Cuatro Ciénegas, Coahuila, Mexico, paratypes from various localities, Trans. Ill. Acad. Sci. 53, 1-2, 1960, p. 38, Williams, K. L., Smith & Chrapliwy.

Sceloporus nelsoni coerules, subsp. nov., type localities: Urique, Chihuahua, Mexico, Gt. Basin, Nat. 19 4 1960, p. 79, head figd., Tanner & Robison (3); *S. n. barrancorum*, nom. nov., proposed for *Sceloporus nelsoni coerules* Tanner & Robison, 1960, which is a secondary homonym of *S. ornata coerules*, Smith, 1936 [not 1836 as printed], Herpetologica 16 2 p. 114, Tanner & Robison (6).

Sceloporus occidentalis, On survival of population from a burn, Kahn; From Divide Area, Del Norte Co., California, Pimentel (2); On pineal function, Stebbins (1); On effects of pinealectomy, figs., Stebbins (2); Effect of acclimation on the preferred body temperature, Wilhoff & Anderson (2); *S. o. occidentalis*, On cannibalism in captivity, Skehan.

Sceloporus olivaceus, A population study, Blair.

Sceloporus p. poinsetti, Record now established in Sonora, Tanner (2).

Sceloporus scalaris unicanthalis, From Jalisco, Grant & Smith (6).

Sceloporus squamosus, From El Salvador, Minton & Smith.

Sceloporus teapensis, From Teapa, Tabasco, Smith, H. M. (1).

Sceloporus torquatus melanogaster, From Jalisco, also notes on young, Grant & Smith (6); From Zacatecas, Williams, K. L., Smith & Chrapliwy.

Sceloporus undulatus, From Cragin Quarry area, Etheridge (2); Malaria in Georgia specimens, Jordan; On the paratympumpan, Simonetta; On pineal function, Stebbins (1); On reproduction in Oklahoma; u. *conso-brinus*, u. *garmani*, u. *hyacinthinus*, and notes on incubating, figs., Carpenter (7); *S. u. undulatus*, Eating a *Storeria occipitomaculata*, Busack; On reflectivity of the integument, Hutchison & Larimer; *S. u. garmani*, Of S. Dakota, Fishbeck & Underhill; Distribution in Kansas, Legler (1); *S. u. hyacinthinus*, Of Johnston Cnty., Indiana, Holman (2); On reflectivity of the integument, Hutchison & Larimer; Distribution in Kansas, Legler (1); Of Pine Hill area, S. Illinois, Rossman.

Sceloporus woodi, On reflectivity of the integument, Hutchison & Larimer.

Tropidurus, Of Bolivia; *pictus* (fig.), *praecornatus* (figs.), *spinulosus* (Of Paraguay); *torquatus hispidus* (of N. Chaco and Paraguay); *t. torquatus* (of Brazil), Hellmich; Note on condition in Galapagos, Scott; *T. semitaeniatus*, In terrarium, Reum; In terrarium, photograph, Reyst (1); *T. spinulosus, torquatus*, Of Santa Cruz, Bolivia, Gans (3).

Uma inornata, notata, scoparia, On testes changes in 3 populations, Mayhew; *U. scoparia*, Range extended into Arizona, Elvin.

Uranoscodon superciliosus, In terrarium, photograph, Reum.

Urosaurus b. bicarinatus, From Jalisco, Grant & Smith (6); *U. b. tuberculatus*, From Urique, Chihuahua, Mexico, Tanner & Robison (3); *U. o. lateralis*, Of Tres Maria's Ids., plate, Zweifel (1).

Urostrophus, Of Grand Chaco and Paraguay, *scapulatus, vautieri*, Hellmich.

Uta stansburiana stejnegeri, In southern New Mexico and Texas, Sabath (1); From Texas, on eggs, Sabath (2); From Coahuila, Williams, K. L., Smith & Chrapliwy.

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Of Morocco, Pasteur & Bons (7).

Acanthodactylus sp., Of Iraq, some food habit notes, Weber; Of Morocco; *boskianus asper, erythrurus atlanticus, e. bellii* (*e. mauritanicus* Doum. is a synonym); *e. lineo-maculatus; pardalis* (*p. maculatus, bedriagai, latastei*, are synonyms), *scutellatus aureus, s. inornatus, savignyi savignyi, spinicaudus*, Pasteur & Bons (7).

Acanthodactylus boskianus asper, From Iraq, Khalaf.

Acanthodactylus cantor, From Sinai, Bons, Giro & Pasteur (4).

Acanthodactylus erythrurus lineo-maculatus, From Doukkala plains, Morocco, Bons (1).

Acanthodactylus pardalis, Effects of thinning of egg-covering, Bons (3).

Acanthodactylus syriacus, On behaviour in captivity, Reyst (3).

Algyroides, Of the Iberian Peninsula, *marchi*, fig., (? *A. hidalgoi* Bosca is a synonym), Klemmer; *A. nigropunctatus*, On the habitat in Jugoslavia, Becker; Of Corfu, coloured plate, notes, Mertens (12).

Aporosaura anchietae, Figs., of S.W. Africa, Hoesch (2).

Eremias sp., Seasonal changes of fat bodies and gonads, of Arax R. valley, Armenia, Darevsky (1); Of S.W. Africa, Hoesch (2); Of Morocco; (*Mesalina*) *guttulata guttulata, olivieri olivieri, o. simoni* (a new combination), *rubropunctata, pasteurii*, Pasteur & Bons (7).

Eremias argus, Habitat fig., in Korea, Hahn (1).

Eremias arguta, Of W. Kazakhstan, Russia, Paraskiv & Butovski.

Eremias brevirostris, Of Iraq, some food habit notes, Weber.

Eremias grammica, Role in maintenance of C. Asiatic tick-recurrence, Mishchenko; In W. Karakum, Turkistan, temperature control, Uschakow (2).

Eremias guttulata watsonana, Of Afghanistan, Wettstein.

Eremias kessleri, New for U.S.S.R., at Tuva autonomous region, 900 km. N.W. of range, Flint.

Eremias lineolata, In W. Karakum, Turkistan, temperature control, Uschakow (2).

Eremias scripta, In W. Karakum, Turkistan, temperature control, Uschakow (2).

Eremias olivieri simoni, From Doukkala plains, Morocco, Bons (1).

Eremias pasteurii, sp. nov. type loc.: Amguid (Hoggar), Sahara, N.W. Africa, paratypes from various locs.; C.R. soc. sci. Nat. phys. Maroc, 1960, No. 4 p. 69, Bons (2).

Eremias trauchi, In Berlin zoo, photo, Petzold (1).

Eremias velox, Of W. Kazakhstan, Russia, Paraskiv & Butovski.

Holaspis guentheri, On gliding, fig., Mertens (6).

Ichnotropis squamulosa, capensis capensis, Of Kruger National Park.

Lacerta sp., Probably in Morocco, Pasteur & Bons (7).

Lacerta agilis, Of Sweden, coloured fig., general observation, **Curry-Lindahl**; In London area, **Pitter**; Early year record in Dorset, **Gooch**; Of the Linz autobahn area, **Hamann**; On active periods and temperature, **Hoffmann** (2); General observations, behaviour, etc., photographs, **Kinns**; Of W. Kazakhstan, Russia, **Paraskiv & Butovski**; On behaviour in captivity, **Reyst** (3); On the paratympanum, **Simonetta**; Enzymatic activities of the erythrocytes, **Stolk** (6); and a. var. *rubra*, Of Börzsöny, Hungary, **Szabó**.

Lacerta agilis agilis, The development of the hypophysial vascular system, figs., **Enemar**; Of Europe, general, range, growth, photograph, **Mertens** (4); On melanism, **Mertens** (10); *L. a. brevicaudata*, Of Armenia, **Luppa, Müller, Nicht & Tietze**; *L. a. grusinica* nom. nov. for *L. exigua* Eichwald, **Peters, G.**

Lacerta agilis, see also under *stirpium*.

Lacerta (Zootoca) andreanskyi, Of Morocco, **Pasteur & Bons** (7).

Lacerta filfolensis laurentii-mülleri, Of Linosa, Lampedusa, figs., *f. filfolensis*, *Filfolia*, *f. mallensis*, Malta & Gozo; *f. kieselbachii*, of San Paolo; *f. generalensis*, Scoglio Fungus o del Generale, W. of Gozo, biography, **Lanza & Bruzzone** (2).

Lacerta fumana lissana var. *digenea* Wettst. 1926, application to validate, **Mertens & Wermuth** (18).

Lacerta hispanica hispanica, In the Iberian Peninsula, **Klemmer**; *L. (Podarcis) h. vaucheri*, Of Morocco, **Pasteur & Bons** (7).

Lacerta lepida, Of Galita Ids., Tunisia, figs., **Lanza & Bruzzone** (1); Photograph of head, general account, **Mertens** (5); Death caused by parotoid secretion from *Bufo horribilis*, **Papenfuss**; *L. l. lepida*, In the Iberian Peninsula, **Klemmer**; *L. (Lacerta) l. pater*, Of Morocco, **Pasteur & Bons** (7).

Lacerta melisellensis, Of Adriatic Islands, **Radovanović** (2).

Podarcis micahellesii Fitzinger 1864, application to suppress specific name for Law of Priority, **Mertens & Wermuth** (18).

[*Lacerta muralis*], In the Iles d'Hyères, France, **Knoepffler**; *L. muralis*, On the inner ear, figs., **Baird**; On reflectivity of the integument, **Hutchison & Larimer**; In captivity, **Klijnsstra**; On the paratympanum, **Simonetta**; Of Börzsöny, Hungary, **Szabó**.

Lacerta muralis muralis, Of Europe, photograph, general, range, growth, **Mertens** (4); On melanism, **Mertens** (10); *L. m. fusca* var. *erhardii* Bedriaga 1882; *L. m. f. var. nazensis* Werner 1889; *L. m. f. var. milensis* Bedr. 1882; *L. m. f. var. maculiventris* Werner 1891; *L. m. f. var. lissana* Werner 1891; *L. m. neapolitana* var. *fumana* Wern. 1891; *L. m. n. insulanica* Bedr. 1882; *L. m. n. pelagosa* Bedr. 1882; *L. m. coeruleascens gallensis* Eimer 1881; *L. m. c. monacensis* Eimer 1881; application to validate specific names; *L. m. punctato-striata* Eimer 1881; *L. m. punctato-fasciata* Eimer 1881; application to suppress specific names for Law of Priority, **Mertens & Wermuth** (18).

Lacerta peloponnesiaca, Systematics, range, *p. peloponnesiaca*; *p. lais*, subsp. nov., type loc.: Kalavritta, Nordpeloponnes; range, *Elis* and *Achaia* (p. 99 fig. 1), *p. phryne*, subsp. nov. type loc.: Berg vella, S. Kalavritta, Upper Waldginstels (p. 101, fig.); *p. thais*, subsp. nov., type loc.: Aesculap-Heiligtum, 400 m., Argolis (p. 102, figs.), Bonn. zool. Beitr. 1 (11) 1860, **Buchholz**.

Lacerta (Scelarcia) perspicillata, Figs., of Morocco, **Pasteur & Bons** (7).

Lacerta princeps, From Djebel Khantur, nr. Turkish-Iranium Grenze, 1000-1200 m., **Wettstein-Westersheimb**.

Lacerta saxicola, of Armenia, col. pl. **Luppa, Müller, Nicht & Tietze; subsp. On cellular adaptations to the rise of temperatures, **Ushakov** (1).**

Lacerta sicula, On active period and temperature, **Hoffmann** (2); Of Adriatic Ids., **Radovanović** (2); *L. s. sicula*, Neurosecretory phenomena in ♂♀, **Ghiara**; *L. s. campestris*, Electron microscopy of epididymis secretion, **Furieri & Lanzavecchia** (2); General observations in captivity, **Klijnsstra**.

Lacerta stirpium, Effect of hormones, **Zahnd, Porte & Delage**. See also under *agilis*.

Lacerta strigata, Of Armenia, **Luppa, Müller, Nicht & Tietze**; In Berlin zoo, photo., **Petzold** (1).

Lacerta taurica, On active periods and temperature, **Hoffmann** (2); *L. t. taurica*, *t. ionica*, Of Corfu, notes, **Mertens** (13).

Lacerta t. trilineata, Of Corfu, fig., notes, **Mertens** (12).

Lacerta viridis, In Zeeland, Holland, **Bree**; Experiments on running, **Fischer, K.**; On regular organisation of material in certain mitochondria of neuroglia, figs., **Gray**; On active periods and temperature, **Hoffmann** (2); Photograph, general account, **Mertens** (5); Of Corfu, notes, **Mertens** (12); The projection of the thalamus upon the telencephalon, **Powell & Kruger**; On the paratympanum, **Simonetta**; On embryos, figs., **Slipka**; Of Börzsöny, Hungary, **Szabó**; General observations in France, **Wezeman**; *L. v. viridis*, Photograph, Of Europe, general, range, growth, **Mertens** (4); On melanism, **Mertens** (10).

Lacerta vivipara, On the inner ear, figs., **Baird**; On abnormalities in an embryo, figs., **Bellairs & Gamble** (1); Coloured fig., Of Sweden, general observations, **Curry-Lindahl**; Early year record in Dorset, **Gooch**; Experimental embryology, **Lutz & Dufaure**; Photograph, Of Europe, general, range, growth, **Mertens** (4); On melanism, figs., **Mertens** (10).

Nucras intertexta holubi, lugubris, Of Kruger National Park.

Ophisops beddomei, On the heart, **Kashyap**; *O. blanfordi*, From Iraq, **Khalaf**; Care and maintenance, **Nemens**; *O. elegans*, of Armenia, **Luppa Müller Nicht & Tietze**; *O. e. elegans*, Of Iraq, some food habit notes, **Weber**; *O. occidentalis*, Of Morocco, **Pasteur & Bons** (7).

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Psammotromus algirus algirus, Of Conigli Id., figs., biogeography, **Lanza & Bruzzone** (2); Figs. (*a. ketamensis* Galan, is a synonym); *a. nollii*, figs., is reinstated; *blanci microdactylus*, Of Morocco, **Pasteur & Bons** (7); *P. algirus* subsp., figs., Of Galita Ids., Tunisia, **Lanza & Bruzzone** (1); *P. hispanicus edwardianus*, Of France, **Wezeman**.

Takydromus smaragdinus, Of Amami, Koba; Of Tokara Ids., **Shibata**; *T. wolteri*, In Korea, **Hahn** (1).

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†*Clidastes tortor*, Niobrara formation of S. Dakota, U.S.A., **Sevon**.

†*Mosasauria* from the Upper Cretaceous of W. Australia, **Lundelius & Warne**.

†*Mosasaurus hoffmanni* Maestrichtian, Holland, **Krutzser**.

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Lialis burtonii, Photograph, of Sydney region, general account, Cogger (2).

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Of Western Australia, key to genera, and species, Glauert (2); Of W. Australia, *Ablepharus*, general descriptions, key to species, Glauert (4); Of Morocco, Pasteur & Bons (7).

Ablepharus, Of W. Australia, general descriptions, key to species: *boutonii*, *lineo-ocellatus*, *taeniopleurus*, *davisi*, *uotjulum*, *greyii*, *rhodonoides*, *reginae*, sp. nov. (p. 119), type loc.: Queen Victoria Spring, W. Australia; *broomensis*, *elegans*, *muelleri*, W. Aust. Nat. 7 7 1960, Glauert (4).

Ablepharus bivittatus, Col. pl., Of Armenia, Lupp, Müller, Nicht & Tietze.

Ablepharus boutonii, Of Ayres Rock, S. Australia, notes, Mertens (2).

Ablepharus brandtii festae, Of Iraq, some food habit notes, Weber.

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Ablepharus lineo-ocellatus, Of N. Island, Houtman Abrolhos, Storr (1).

Ablepharus pannonicus (*brandtii*), *bivittatus lindbergi*, subsp. nov., type loc., W. of Obé, E. of Herat, W. Afghanistan (p. 61); notes on *b. bivittatus*, *alaicus*, *grayanus*, Zool. Anz. 165 (1-2) 1960, Wettstein, O. v.

Ablepharus wahlbergii, Of Kruger National Park.

Acontias plumbeus plumbeus, Of Kruger National Park.

Anguiniceps hickmani, Some osteological characters, figs., Deraniyagala (3).

Ateuchosaurus pellopleurus, Of Amami, Koba; Of Tokara Ids., head figd., Shibata.

Barkudia insularis, On the heart, Kashyap.

Chalcides, Of Morocco, (*Chalcides*) *chalcides*, (*vittatus*, *c. concolor*, *c. mertensi*, *c. striatus* are synonyms), *mionecton mionecton*, *m. trifasciatus*, *ocellatus colosii*, *o. manuli*, *o. montanus*, *o. subtypicus*, *o. tiligugu*, *polylepis polylepis*, *viridanus* (introduced), subgenera, *Chalcides* and *Heteromeles* is reinstated for species *mauritanicus*, Pasteur & Bons (7); *C. boulengeri* is reinstated; *del'isleri*, *sepsoides*, *sphenopsiformis* are referred to *Sphenops*, Of Morocco, Pasteur & Bons (7); *C. chalcides*, *mionecton mionecton*, *polylepis polylepis*, From Doukkala plains, Morocco, Bons (1); *C. (Heteromeles) mauritanicus*, Probably in N.E. Morocco, Pasteur & Bons (7); *C. ocellatus*, Of Galita Ids., Tunisia, figs., Lanza & Bruzzone (1); On behaviour in captivity, Reyst (3); On nervous system, figs., Santamaria-Arnaiz; On the paratympanum, Simonetta; *C. ocellatus subsp.*? Of Lampione, figs., biogeography; *ocellatus linoae*, Of Linoas, figs., *o. zavattarii*, Of Lampedusa, Conigli, figs., biogeography, Lanza & Bruzzone (2).

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Egernia, Of W. Australia, key to species, *carinata*, *kingii*, *napoleonis*, *formosa*, *inorata*, *kintorei*, *whitii*, *stokesii*, *depressa*, Glauert (2); *E. bos*, sp. nov., type loc.: Cheyne Beach, W. Australia, 34°52' S. & 118°23' E., W. Aust. Nat. 7 4 1960, p. 99, figs., Storr (2); *E. kingii*, Of N. Island, Houtman Abrolhos, Storr (1); *E. striolata*,

On behaviour in captivity, Reyst (3); *E. whitii*, Natural history notes, Hickman; *E. stokesii*, Photographs, general account, Mertens (5).

Eumeces algeriensis algeriensis, From Doukkala plains, Morocco, Bons (1); *E. a. algeriensis*, *a. meridionalis* (addition), Of Morocco, Pasteur & Bons (7).

Eumeces anthracinus pluvialis, Presence in W.C. Georgia established (nr. Geneva), range extended, 140 mls. S. in Georgia and 100 east of nearest record in Alabama, Mecham.

Eumeces barbouri, Of Amami, Koba.

Eumeces dicei pineus, subsp. nov., type loc.: 25°12' N.-100°24' W., in Cañon de Carolina, 13 mls. E. San Antonio de las Alazanas, Coahuila, Mexico, Copeia, No. 1 1960, p. 19 figs., Artell (2).

Eumeces egregius, Of Alabama (3 mls. N.W. of Wadley, Randolph Cnty.), extends range 66 mls. N.W. of Georgian locality, Mecham; *E. e. onocrepis*, Recorded from Naples, Collier Cnty., Florida, Le Buff.

Eumeces fasciatus, On the inner ear, figs., Baird; An albino from Erie Cnty., Ohio, Brungs & Britt; Of S. Dakota, Fishbeck & Underhill; Of Johnson Cnty., Indiana, Holman (2); Of Pine Hill area, S. Illinois, Rossman.

Eumeces laticeps, Distribution in Kansas, Legler (1); Of Pine Hill area, S. Illinois, Rossman.

Eumeces laticinctus laticinctus, Comparative histology of thyroid, Yamamoto.

Eumeces lynce bellii, Observations on status, and distribution chart of lynce groups in Mexico, Parker, R. B.

Eumeces marginatus, From Tokara Ids., Shibata.

Eumeces obsoletus, On the inner ear, figs., Baird; Physiological responses to temperature, Dawson (1); From Cragin Quarry area, Etheridge (2); On reflectivity of the integument, Hutchison & Larimer.

Eumeces oshimensis, Of Amami, Koba.

Eumeces schneideri, Role in maintenance of C. Asiatic tick-recurrence, Mishchenko; Col. pl., of Armenia, Lupp, Müller, Nicht & Tietze; *E. s. princeps*, From Iraq, Khalaf.

Eumeces septentrionalis septentrionalis, Of S. Dakota, Fishbeck & Underhill.

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Hemisphaeriodon gerrardi, In captivity, including birth, Wilhoft (1).

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Leiolepis guichenoti, Of Sydney region, general account, Cogger (2).

Lygosoma laterale, On reflectivity of the integument, Hutchison & Larimer; Of Pine Hill area, S. Illinois, Rossman; Estimate of Louisiana population, Turner.

Sphenomorphus leonhardii, Of Ayres Rock, S. Australia, notes, Mertens (2).

Lygosoma (Sphenomorphus) lesueurii, Of N. Island, Houtman Abrolhos, Storr (1).

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Sphenomorphus quoyi, Of Sydney region, general account, Cogger (2).

Sphenomorphus taeniolata, Of Sydney region, general account, Cogger (2).

Lygosoma weekae, On the inner ear, figs., Baird.

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Mabuya aurata, Role in maintenance of C. Asiatic tick-recurrence, Mishchenko; *M. a. aurata*, *a. septemtaeniata*, From Iraq., Khalaf; Of Iraq, some food habit notes, Weber; *M. a. septemtaeniata*, In Berlin zoo, photo., Petsold (1).

Mabuya brachypodus, From Costa Rica, Minton & Smith; From Teapa, Tabasco, Smith, H. M. (1).

Mabuya capensis, On the paratympaum, Simonetta.

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Mabuya dorsivittata, Of Grand Chaco and Paraguay, Hellmich.

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Mabuya madagascariensis, From Tsiafajavona, Madagascar, Pasteur (1).

Mabuya multifasciata, Photograph, general account, Mertens (5); On morphology and histology of thyroid gland, Soetjijto.

Mabuya perroteti, Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Mabuya quinquetaeniata margaritifera, Of Kruger National Park.

Mabuya striata, Of Kruger National Park.

Mabuya unimarginata, From Costa Rica, Minton & Smith.

Mabuya varia, Of Kruger National Park.

Mabuya vittata, From Iraq, Khalaf.

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Rhodona, see under *Lygosoma*.

Riopa guentheri, On the heart, Kashyap.

Riopa lineata, Range extended into Annamalai Nagar, Chidambaram Dist., Madras State, Chari.

Riopa sundevallii, Of Kruger National Park.

Scelotes bidigitatus, *inornatus* *mossambicus* (?), Of Kruger National Park; *S. gastrostictus*, *macrocerus*, are synonyms of *melanurus*, Pasteur (1).

Scincella assata assata, From Guatemala, also with note on specific name termination as well as use of *Scincella* [*Leiolepis*], Minton & Smith; *S. laterale*, From 5.7 mls. W. of Cuatro Ciénegas, Coahuila, a new Mexican locality, Williams, K. L., Smith & Chaplin.

Scincopus fasciatus, Probably in Morocco, Pasteur & Bons (7).

Scincus scincus, On behaviour in captivity, Reyst (3); *S. s. conirostris*, From Iraq, Khalaf; *S. s. laterimaculatus*, *s. cucullatus*, Of Morocco, Pasteur & Bons (7).

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Siaphos aequalis, Of Sydney region, general account, Cogger (2).

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Trachysaurus rugosus, General notes, of W. Australia, Glauert (2). *Trachysaurus rugosus*, Photograph of head and mouth, coloured photograph, general account, Mertens (5).

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Shinosaurus, On the trigemini muscles, figs., Haas.

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Key to genera and species of the Grand Chaco and Paraguay, Hellmich.

Ameiva ameiva (Photograph), *undulata*, in terrarium, Rekam; *A. a. ameiva*, *lacertoides* (Of Grand Chaco); *longicauda* (Of Patagonia, Argentina), Hellmich; *A. auberi*, Differences in colour shade from N. and S. coast of Oriente, Cuba, Grant (3); *A. quadrilineata*, From Costa Rica, Minton & Smith; *A. surinamensis*, As food for man, Irvine; *A. undulata* *amphigramma*, From Teapa, Tabasco, Smith, H. M. (1).

Bachia dorbignyi, Of Grand Chaco and Paraguay, Hellmich.

Cnemidophorus, Systematic study of *deppei* group in Mexico and Guatemala, keys to adults and young; *deppei deppei*, *d. infernalis*, subsp. nov. [p. 32, type loc. Mexcala, Guerrero, Mexico, on Rio Balsas, elevation 370 m.]; *d. cozumelus*, *lineatissimus* *lineatissimus*, *l. exoristatus*, subsp. nov. [p. 44, type loc.: Rancho Santa Ana, 4 km. by road N.E. of San Salvador, 600 m.]; *l. duodecimlineatus*, new combination; *l. lividus*, subsp. nov. [p. 50, type loc.: Maruata, 18°17' N. 103°20' W. sea level, Michoacán, Mexico]; *guttatus* *guttatus*, *g. immutabilis*, *g. flavilineatus*, subsp. nov. [p. 65, type loc.: Finca Orizaba, 20 km. S.W. of Las Cruces, Chiapas, Mexico, ± 650 m.], Misc. Publ. Mus. Zool. Univ. Mich. No. 3, 1960, Duellman & Wellman (5).

Cnemidophorus calidipes, Variation, distribution and ecology in Mexico, figs., Duellman (3).

Cnemidophorus communis mariarum, Of Tres Marias Ids., Zweifel (1).

Cnemidophorus inornatus, In Southern New Mexico and Texas, Sabbath (1).

Cnemidophorus lemniscatus, Coloured photograph, general account, Mertens (5); *C. l. nigricolor*, Of Islas las Aves, Venezuela, fig., Aleman.

Cnemidophorus ocellifer, Of Grand Chaco and Paraguay, Hellmich.

Cnemidophorus parvisocius, sp. nov., type loc.: Cuicatlan, Oaxaca, Mexico, 580-650 m., paratypes also from Teotetlan, Oaxaca, 900-1050m., Amer. Mus. Novit. No. 1998, p. 1, 1960, Zweifel (2).

Cnemidophorus sacki barrancorum, From Urique, Chihuahua, Mexico, Tanner & Robison (3); *C. s. exsanguis*, From Chihuahua, Williams, K. L., Smith & Chaplwy; *C. s. occidentalis*, From N.W. Jalisco, includes notes on eggs, Tanner & Robison (4); *C. s. scalaris* × *s. huica*, From Jalisco, Grant & Smith (6); *C. s. zweifeli* subsp. nov., type loc.: Capirio, Michoacán, Mexico, 185m., Univ. Kansas Publ. Mus. nat. Hist. 10, 9, 1960, p. 589, head and col. pattern figd., Duellman (1).

Cnemidophorus sexlineatus, On aggressive behaviour and social dominance, Carpenter (3); On reproduction in Oklahoma, and notes on incubating method, figs., Carpenter (7); From Cragin Quarry area, Etheridge (2); Of S. Dakota, Fishbeck & Underhill.

Cnemidophorus tessellatus, In Southern New Mexico and Texas, Sabbath (1); First record from Mexico, Chihuahua, La Cruz, figs., Williams, K. L., Smith & Chaplwy.

Cnemidophorus tigris marmoratus, Figs., *t. variolosus*, figs., from Coahuahua; *tigris pulcher*, subsp. nov., type loc.: 1.2 mls. N.W. of Carrillo, Chihuahua, Mexico, paratypes from other localities, Trans. Ill. Acad. Sci. 53, 1-2, 1960, p. 43, Williams, K. L., Smith & Chaplwy.

Colobosaura kraepelini, Of Grand Chaco and Paraguay, Hellmich.

Crocodylus lacertinus, Of Grand Chaco and Paraguay, Hellmich.

Dracaena guianensis, Photograph, general account, Mertens (5); General observations, in San Diego Zoo, figs., Shaw (2).

Eupodilyx bolivianus, Of Grand Chaco and Paraguay, Hellmich.

Gymnophthalmus rubricauda, Of Chaco and Paraguay, Hellmich.

Kentropyx paulensis (of S. Brazil), *viridistriga* (Of Paraguay), Hellmich.

Micrablepharus maximiliani, Of Grand Chaco and Paraguay, Hellmich.

Neusticurus ecleopus, On the negative evidence of luminous ocelli, Roth & Gans.

Pantodactylus schreibersi schreibersi, Of Grand Chaco and Paraguay, Hellmich.

Prionodactylus vertebralis, On the negative evidence of luminous ocelli, Roth & Gans.

Proctoporus, Structure of the luminous organ, species examined; *shreevi*, *luctuosus*, *achlyens*, figs., Roth & Gans.

Teius teyou, Of Santa Cruz, Bolivia, Gans (3); On the paratympanum, Simonetta; *T. t. cyanogaster* (figs.), *t. teyou*, Of Grand Chaco and Paraguay, Hellmich.

Tupinambis rufescens, *teguixin*, Of the Grand Chaco and Paraguay, Hellmich. *T. teguixin*, On skull morphology and kinesis, fig., Hofer; As food for man, Irvine.

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Varanus, Hazards in nature, figs., Attwell; Sp., On the inner ear, figs., Baird; Spp., On skull morphology and kinesis, figs., Hofer.

Varanus albigularis albigularis, Of Kruger National Park.

Varanus dumerili, Fig., on skull morphology and kinesis, Hofer.

V. e. microstictus, On skull morphology and kinesis, fig., Hofer.

Varanus exanthematicus, As food for man, Irvine.

Varanus flavescens, On skull morphology and kinesis, fig., Hofer; In terrarium, Rekm.

Varanus giganteus, As food for man, Irvine.

Varanus gilleni, Of Ayres Rock, S. Australia, notes, Mertens (2).

Varanus gouldi, As food for man, Irvine; Photograph, in natural habitat, general account, Mertens (5); *V. [niloticus]*, *gouldii*, On apparent tooth replacement in old specimen, figs., and remarks on other species, Bellairs & Miles (2).

Varanus griseus, From Iraq, Khalaf; Role in maintenance of *C. Asiatic* tick-recurrence, Mishchenko; Free amino acids in blood, Nair; Of Iraq, some food habit notes, Weber; *V. (Psammosaurus) g. griseus*, Morocco, Pasteur & Bons (7); *V. g. arabicus*, Experiments on nervous system, Lesny & Vogel.

Varanus komodoensis, On skull morphology and kinesis, figs., Hofer; Photographs in nature, general account, Mertens (5).

Varanus monitor, As food for man, Irvine; On the heart, Kashyap.

Varanus niloticus, As food for man, Irvine; Observed feeding on seeds of grass *Panicum deustum*, Journal Nat. Parks; Of Kruger National Park; Photograph in nature, general account, Mertens (5); On skull morphology and kinesis, figs., Hofer; Enzymatic activities of the erythrocytes, Stolk (6); *V. (Polydaedalus) n. niloticus*, Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Varanus salvadorii, Of Papua, general biology, observations, photograph, Mertens (14).

Varanus salvator, On skull morphology and kinesis, figs., Hofer; As food for man, Irvine.

Varanus tristis, Of Ayres Rock, S. Australia, notes, Mertens (2).

Varanus varius, Photograph, Of Sydney region, general account, Cogger (2).

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Lepidophyma f. flavimaculatum, From Teapa, Tabasco, Smith, H. M. (1).

†*Palaeoxantusia* gen. nov. (p. 4), Xantusiidae ?; *P. fera* sp. nov. (p. 4 f. 1, 2), Eocene, Elk Mt., Wyoming, U.S.A., Amer. Mus. Novit. No. 1774, 1956, Hecht, M. K.

Xantusia vigilis, On the paratympanum, Simonetta.

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General Fossil.—Pleistocene snakes, Ozark Plateau, Arkansas, U.S.A., Dowling (1); (Colubridae) numerous vertebrae from the Pliocene of Poland, Mlynarski (3).

General Recent.—A check list and key of the Snakes of Ecuador, Peters, J. A. (2); The poisonous snakes of Panama, Grocott & Sadler; Of Trinidad, general list, some notes on food, colour, etc. [a number of printing errors are present in the text and name spelling], Wehckind; Snakes of the Galapagos, figs., Mertens (8); On snake-bite in W. Africa, observations on poison apparatus, glands, notes on serum available, figs., etc., key to genera, distribution of species, Dekeyser & Derivot (2); Of Congo oriental, includes ecology, Laurent; On the snakes of Brazzaville, general notes, and on bacteriology, Ravisse; Report of the biologist of Kruger National Park; The taxonomy of the cobras of S.E. Asia, plates, Deraniyagala (8); The snakes of the sub-family Dipsadinae, evolutionary trends, ecological notes, key to genera and species, figs., distribution charts, Peters, J. A. (1); A guide to the hemipenis, a survey of basic structure and systematic characteristics, figs., Dowling & Savage (7); Tooth replacement, Edmund (2).

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Anilius scytale, Of Ecuador, Peters, J. A. (2); Of Trinidad, Wehckind; *A. s. scytale*, Of Jacareacanga, Estado do Para, Brazil, Hoge & Belluomini (2).

†*Coniophis carinatus* (p. 138, pl. 52), *C. platycarinatus* (p. 139, pl. 53, figs. 1-2), spp. nov. Eocene, Elk Mountain, Tabernacle Butte area, Wyoming, Bull. Amer. Mus. nat. Hist. 117 3 1959, Hecht, M. K. in McGrew, P. O.

Cylindrophis rufus, Photograph, defensive position, general account, Mertens (5).

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Of Madagascar and Mascarenes, classification, Casarea, Bolyeria, no absolute reason for distinct families, Hoffstetter (4).

Boa constrictor, An electro-encephalogram, Stafford & Brody; *C. c. constrictor*, On heart rates of unanaesthetized examples, Clarke, G. K. & Marx; Of Jacareacanga, Estado do Para, Brazil, Hoge & Belluomini (2); and *c. imperator*, Of Ecuador, Peters, J. A. (2); *C. c. imperator*, First report from Tabasco (Teapa), Smith, H. M. (1); Of the Tres Marias Islands, plate, *B. c. sigma* is referred to the synonymy, Zweifel (1); *B. dumerilii*, On 'wanderings' in captivity, Mertens (15); *B. enydris*, Of Santa Cruz, Bolivia, Gans (3).

Calabaria reinhardti, Of Congo Oriental, including ecology, Laurent.

†*Calamagrus primus* sp. nov. (p. 142, pl. 54 figs. 1-5), Eocene, Elk Mountain, Tabernacle Butte area, Wyoming, Bull. Amer. Mus. nat. Hist. 117 3 1959, Hecht, M. K. in McGrew, P. O.

†*Charina prebotae* sp. nov. p. 6, Upper Miocene, San Bernardino Co., California, Brattstrom (1).

Chondropython viridis, Photograph, general account, Mertens (5).

Constrictor, see under *Boa*.

Corallus annulatus blombergi, a. colombianus, caninus, enydris enydris, Of Ecuador, key, Peters, J. A. (2) *C. caninus*, Photograph, general account, Mertens (5) *C. enydris cooki*, Of Trinidad, Wehckind.

Epicrates angulifer, Differences in colour shade from N. or S. coasts of Oriente, Cuba, Grant (3); *E. cenchria cenchria*, Of Ecuador, Peters, J. A. (2); *E. cenchria*, Of Trinidad, Wehckind; *E. striatus*, On eating frogs but refusing mice in captivity, Skehan.

Eryx conicus, *johni johni* (Fig.), general notes, S. India, Satyamurti; *E. conicus brevis*, On the breeding season in Ceylon (June 1959), plates, Deraniyagala (5); *E. jaculus*, From Iraq, Khalat; *E. j. jaculus*, Probably in Morocco, Pasteur & Bons (7); *E. johni*, On the heart, Kashyap; *E. miliaris*, Role in maintenance of C. Asiatic tick-recurrence, Mishchenko; Of W. Kazakhstan, Russia, Paraskiv & Butovski; *E. m. miliaris*, In terrarium, Hoevers & Roon (2); *E. tataricus*, On 'wandering' in captivity, Mertens (15).

Eunectes, Note on size and number of young, species used, *dechaunesei*, *notaeus*, *murinus*, *Belluomini*, *Maranhao* & Hoge (2); *E. murinus*, Of Ecuador, Peters, J. A. (2); *E. murinus gigas*, Of Trinidad, Wehckind.

†*Madtsia bai*, study of the dentary in the British Museum (Natural History) collection, Hoffstetter (3).

Morelia spilotes spilotes, Of Sydney region, general account, Cogger (2).

†*Paraepicrates* gen. nov. of Boinae (p. 143) type. sp. *P. brevispondylus* sp. nov. (p. 143, pl. 55), Eocene, Elk Mountain, Tabernacle Butte, Wyoming, Bull. Amer. Mus. nat. Hist. 117 3 1959, Hecht, M. K. in McGrew, P. O.

[*Python*]. On metabolism of bile acids, Bergstrom, Danielsson & Kasuno; *P. curtus*, In captivity, Liat, Waters & Omar; *Python molurus*, On the heart, Kashyap; Fig., General notes, S. India, Satyamurti; *P. m. molurus*, Photograph eating, *m. bivittatus*, photograph, general accounts, Mertens (5); *P. reticulatus*, In captivity, Liat, Waters & Omar; *P. (sebae)*, In Nairobi National Park, figs. eating aard-wolf, Hallet & Ellis; *P. sebae*, Figures showing phases of attack on prey, Dekeyser & Derivot (2); From Ifakara, E. Prov., Tanganyika, Freyvogel; In Natal national park, Journal Nat. Parks; Of Kruger National Park; Of Congo oriental including ecology, Laurent; Of Brazzaville, C. Afr., Ravisse; From Portuguese Guinea, Villiers (1); Of Parc National du Niokolo-Koba, Senegal, Villiers (2); *P. spilotes* Of N. Island, Houtman Abrolhos, Storr (1).

Trachyboa boulengeri, On tail colour, Neill (1); and *gularis*, Of Ecuador, Peters, J. A. (2).

Tropidophis, On tail tip colour, Neill (1); Review of the *pardalis-maculatus* complex of the West Indies, and *nigroventris*, Schwartz, A. & Marsh (3); *T. battersbyi*, *taczanowskyi*, Of Ecuador, Peters, J. A. (2); *T. melanurus*, Differences in colour shade from N. and S. coasts of Oriente, Cuba, Grant (3); *T. melanurus ericksoni*, subsp. nov., [p. 74], type loc.: Bibijagua, Isla de Pinos, Habana Prov., Cuba, figs; *m. dysoni*, subsp. nov. [p. 79], type loc.: 1 km. W. of La Coloma, Pinar del Rio Prov., Cuba, figs., Herpetologica 16 2 1960, Schwartz, A. & Thomas (4).

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Comments on the subfamily Natricinae, suggested re-establishing, presence of hypapophyses throughout the

vertebrae, *Malnate* (2); Of Brazzaville, C. Afr., general notes, list of species, *Ravisse*; General notes of S. India, Madras Mus. exhibition gallery, *Satyamurti*.

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Achalinus werneri, Of Amami, *Koba*.

Acrochordus granulosus, On the heart, *Kashyap*; *A. javanicus*, On feeding habits, as fish-constrictor, fig. *Dowling* (3).

Ahaetulla nasuta, In terrarium, photograph, *Rekum*; *A. prasina*, Coloured photography, general account, *Mertens* (5); On 'wanderings' in captivity, *Mertens* (15); *A. (Dendrophis or Dendrelaphis), tristis, grandoculis*, General notes, S. India, *Satyamurti*.

Alsophis, On Cuban species, *cantherigerus* not *cantherigerus* and previously *angulifer*; *c. pepei*, subsp. nov., type loc.: 9 km. W. and 2.5 km. S. of Baracoa, Oriente Prov., Cuba, *Herpetologica* 16 2 1960 p. 87, *Schwartz, A. & Thomas* (4).

Amphisma, Species contained in this genus: *atemporalis, beddomei, bitaeniata, boulengeri, celebica, conspiciatula, craspedogaster, deschaenensei, doriae, elongata, flavifrons, groundwateri, inas, johannis, khasiensis, maii, modesta, montana, monticola, nicobarensis, novae-guinae, octolineata, parallela, pelti, petersi, picturata, platyceps, poppei, pryori, punctiventris, sanguinae, sarasinora, saravacensis, sauteri, stolata, truncata, venningi, vibakari, zenura, Malnate* (2).

Aparallactus capensis capensis, Of *Kruger National Park*; *A. modestus modestus*, Of Brazzaville, C. Afr., *Ravisse*; *A. modestus ubangensis, capensis punctatolineatus*, Of Congo oriental, including ecology, *Laurent*.

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Arizona elegans exposita, From Chihuahua, Mexico, *Tanner & Robison* (5).

Atractus, Of Ecuador, key to species, *carriani, collaris, dunni, ecuadorensis, elaps, gaigeae, lehmanni, major, microrhynchus, modestus, multicinctus, occidentalis, occipitoalbus, paucidens, resplendens, roulei, Peters, J. A.* (2); Revision of Ecuadorian species, includes, gazetteer of localities; variation in systematic characters, and systematics, descriptions, key to species, a check list of nominal species; forms described are: *carriani, Loja, collaris, E. Ecuador, N.E. Peru, 100-200 m.; dunni, Ecuador, includes in syn. Rhabdosoma maculatum Boc., A. badius (part) Blgr.; ecuadorensis, Llangate area; elaps, Upper Amazon basin from Venezuela and Colombia south through Ecuador and W. Brazil into Peru and Bolivia, 100-1100 m., syn. includes Rhabdosoma poppigi Jan., brevifrenum Jan., Geophis poeppigii Blgr.; A. elaps tetrazonus Amaral, Geophis diplozeugus Schmidt & Walker; gaigeae, restricted to tropical forest of Upper Amazon basin of Ecuador; lehmanni, Cuenca, Azuay Prov., 2600 m.; major, throughout forested Oriente region, 600-3500 ft.; microrhynchus, Guayaquil, Guayas Prov.; modestus, W. Ecuador, syn. includes Rhab. crassicaudatum Gthr.; multicinctus, dense tropical forests N.W. coastal region of Ecuador and N. into Colombian Chocó; occidentalis, lower slopes of W. Andes of Ecuador, 800-1200 m.; occipitoalbus, upper Amazonian forests of E. Ecuador, 200-1100 m., syn. includes duboisi Blgr., orcesi Savage; paucidens Andes in N.W. Ecuador; resplendens, E. slopes of Andes of Ecuador; roulei slopes of Andes S.W. Ecuador, *Savage, J. M.* (2); *A. obesus, sp. nov.*, type loc.: Santa Bárbara, base of Cerro Frontino, upper Rio Urrao, tributary of Rio Penserisco, Cordillera Occidental, Antioquia, Colombia,*

Fieldiana. Zool. 39 (38) 1960, p. 511, photograph, *Marx, H.* (2); *A. trilineatus*, Of Trinidad, *Wehckind*.

Atretium schistosum, General notes, S. India, *Satyamurti*.

Balanophis ceylonensis, On the heart, *Kashyap*.

Boaedon, Of Brazzaville, C. Afr., *olivaceus, fuliginosus, lineatus, Ravisse*; *B. fuliginosus*, Of Parc National du Niokolo-Koba, Senegal, *Villiers* (2); *B. fuliginosus*, Bat after being eaten caused death by gnawing through oesophagus, etc., *Coe*; From Ifakara, E. Prov., Tanganyika, *Freyvogel*; Of Morocco, *Pasteur & Bons* (7); *B. lineatus*, From Portuguese Guinea, *Villiers* (1); *B. l. lineatus*, Of Parc National du Niokolo-Koba, Senegal, *Villiers* (2); and *olivaceus*, Of Congo oriental including ecology, *Laurent*.

Boiga, Of Brazzaville, C. Afr., *blandingii, pulverulenta, Ravisse*; *B. app., trigonata*, General notes, S. India, *Satyamurti*; *B. blandingii, pulverulenta*, Of Congo oriental, including ecology, *Laurent*; *B. cynodon*, In captivity, *Liat, Waters & Omar*; *B. dendrophila*, On tail vibration, *Batchelor*; In captivity, *Liat, Waters & Omar*; *B. drapiezii*, On tail vibration, *Batchelor*; *B. forsteni leucohaematus*, new colour variety, type loc.: Madampé, near N.W. coast, Ceylon, *Spolia zeylan.* 29 1 1960, p. 37, pl., *Deraniyagala* (6); *B. fusca*, Of Sydney region, general account, *Cosger* (2); *B. nigriceps*, In captivity, *Liat, Waters & Omar*; *B. pulverulenta*, Of Nigeria, note on bat-eating specimen [species is probably *blandingii*], fig., *Woodward*; *B. trigonata*, Histochemical study of lipids in oocytes, *Guraya* (2); On the heart, *Kashyap*.

Bothrophthalmus lineatus lineatus, Of Congo oriental, including ecology, *Laurent*.

Calamellaps unicolor molepis, Of *Kruger National Park*.

Carphophis amoenus, A Kentucky study; key to subspecies, *a. amoenus* (Eastern Worm Snake), *a. vermis* (Western), *a. helenae* (Mid-west); distribution, food, reproduction, etc., figs., *Barbour*; *C. a. helenae*, Of Pine Hill area, S. Illinois, *Rossman*; *C. a. vermis*, On the inner ear, figs., *Baird*.

Cemphora coccinea, Of Pine Hill area, S. Illinois, *Rossman*.

Cerberus rhynchops, General notes, S. India, *Satyamurti*.

Chamaetortus aulicus aulicus, From Ifakara, E. Prov., Tanganyika, *Freyvogel*.

Chironius carinatus, Of Trinidad, *Wehckind*; *C. carinatus, flavopictus, grandisquamis, schläteri*, Of Ecuador, key, *Peters, J. A.* (2); *C. pyrrhopogon*, Of Santa Cruz, Bolivia, *Gans* (3).

Chlorophis, see under *Philothamnus*.

Chrysocopeia, On gliding, *Mertens* (6); *C. ornata*, General notes, S. India, *Satyamurti*; *C. ornata*?, On flying, chart, *Vaughan-Ar Buckley*; *C. paradisi*, Of Malaya, on gliding, fig., *Tweedie*; *C. pelias*, In captivity, *Liat, Waters & Omar*.

Clelia clelia, Of Trinidad, *Wehckind*; *C. c. clelia*, Photo. of head, general observations in British Honduras, *Neill* (2); From Teapa, Tabasco, *Smith, H. M.* (1); and *c. scytalina*, Of Ecuador, *Peters, J. A.* (2).

Coluber aesculapii, On pneumogastric nerve in heart region, figs., *Jullien, Acolat & Provost*.

Coluber atratus, Gmelin 1788, Application for suppression, *Peters, J. A.* (8).

Coluber bicinctus Hermann 1804, On the generic assignment, should be referred to *Hydrodynaster*, Hoge (1).

Coluber constrictor, Ecology, of Mud Lake bog, Washtenaw Cnty., Michigan, Heatwole & Gets; Of Pine Hill area, S. Illinois, Rossman; Subsp., Of Johnson Cnty, Indiana, Holman (2); *C. c. constrictor*, New Ohio records (Morgan & Noble Counties), Adler & Dennis (3); *C. c. flaviventris*, On heart rates of unanaesthetized examples, Clarke, G. K. & Marx; Of S. Dakota, Fishbeck & Underhill.

Coluber elaphis Shaw 1802, application to suppress specific name for Law of Priority, Mertens & Wermuth (18).

Coluber florulentus algeris: f. intermedius (reinstated) Of Morocco, Pasteur & Bons (7).

Coluber foetidus Gildenstedt 1801, application to suppress specific name for Law of Priority, Mertens & Wermuth (18).

Coluber hippocrepis, From Doukkala plains, Morocco, Bons (1); In the Iberian Peninsula, Klemmer; Of Morocco Pasteur & Bons (7).

Coluber jugularis, Role in maintenance of *C. Asiatic* tick-recurrence, Mishchenko; Of W. Kazakhstan, Russia, Paraskiv & Butovski; *C. j. asianus*, From Iraq, Khalaf.

Coluber karelini, Role in maintenance of *C. Asiatic* tick-recurrence, Mishchenko.

Coluber (Elaphe) longissimus, Of the Linz autobahn area, Hamann.

Coluber melanepis Rafinesque 1814, application to suppress specific name for law of Priority, Mertens & Wermuth (18).

Coluber najadum, From Iraq, Khalaf; *C. n. dahlii*, Of Corfu, notes, Mertens (12).

Coluber nigracollis Dwigubskij 1832, Application to suppress specific name for Law of Priority, Mertens & Wermuth (18).

Coluber quater-radiatus Gmelin 1799, Application to suppress specific name for Law of Priority, Mertens & Wermuth (18).

Coluber ravergieri, From Iraq, Khalaf; Col. pl. of Armenia, Luppe, Müller, Nicht & Tietze.

Coluber ventromaculatus, From Iraq., Khalaf; Of Iraq, Weber.

Coluber viridiflavus, On egg-laying and incubation in captivity, Blackwell; On distribution in Vendee, W. France, Duguy & Durand (2); *C. v. viridiflavus*, Of Liguria, Capocaccia; Photograph, of Europe, general, range, growth, Mertens (4).

Comiophanes bipunctatus biseriatus, imperialis clavatus, From Teape, Tabasco; *quinquevittatus*, first report from Tabasco (Teape), Smith, H. M. (1); *C. dromiciformis, fissidens fissidens*, Of Ecuador, Peters, J. A. (2); *C. f. fissidens*, From Guatemala, *f. obsoletus*, subsp. nov. [p. 108], type loc.: Max Cone Finca, 1 ml. E. Volcan de Buenos Aires, Costa Rica. Herpetologica 16 2 1960, figs. of ventral colour patterns, Minton & Smith; *C. lateralis lateritius*, From N.W. Jalisco, is third specimen recorded for this area, Tanner & Robison (4); *C. schmidtii*, First record from British Honduras, fig., *lineatus dunni*, fig., notes on B. Honduras specimens, Neill & Allen (3).

Contia tenuis, On geographic distribution and life history, map, seasonal occurrence charts, Cook.

[*Coronella austriaca*], Early year record in Dorset, Gooch; *C. austriaca*, Coloured fig., Of Sweden, general observations, Curry-Lindahl; Of the Linz autobahn area, Hamann; In Surrey, Hayman; On birth in vivarium, photograph, Offreins; Of Börzsöny, Hungary, Szabó; *C. a. austriaca*, In Liguria, Capocaccia; Photograph, Of Europe, general, range, growth, Mertens (4).

Coronella brevis—is reinstated as *Macroprotodon cucullatus brevis*, Of Morocco, Pasteur & Bons (7).

Coronella girondica, In Liguria, Capocaccia; In the Iberian Peninsula, Klemmer; Of Morocco (*C. amaliae*, (Boettg.) is a synonym), Pasteur & Bons (7); [*C. girondica*], In the Îles d'Hyères, France, Knoepfler.

Crotaphopeltis hotamboeia, A successful hatching of eggs, Boughy; Of Kruger National Park; From Portuguese Guinea, Villiers (1); *C. h. hotamboeia*, From Ifakara, E. Prov., Tanganyika, Freyvogel; Preliminary researches on venom, Mangili; Of Brazzaville, C. Afr., Ravisse; Of Parc National du Niokolo-Koba, Senegal, Villiers (2); *C. h. bicolor, h. ruziziensis*, Of Congo Oriental, including ecology, Laurent.

Cyclagras, On generic assignment, should be referred to *Lejosophs*, Hoge (1).

Cynodontophis newwiedi, Of Brazzaville, C. Afr., Ravisse.

Dasyptis, General observations in terrarium, *s. scaber inornatus*, photographs, Hoovers & Roon (3); *D. fasciata*, Western range extended to Cape Vert, Senegal, Fr. W. Africa, Gans (2); *D. medici medici*, Record from S. Rhodesia, Inyangani Tea Estate, Pungwe Valley, Mozambique border, first record for South of the Zambezi, Bradley (2); *D. scabra*, Observations on feeding behaviour, fig., Rabb & Snedigar; Photograph, action, general account, Mertens (5); *D. s. scabra*, Of Kruger National Park; and *s. atra*, Of Congo Oriental, including ecology, Laurent; *D. s. loerigae*, Fig., in vivarium, Hoersch (3); *D. s. macrops*, Of Brazzaville, C. Afr., Ravisse.

Dendrelaphis, On gliding, Mertens (6).

Dendrophidion bivittatum, brunneum, dendrophis, Of Ecuador, key, Peters, J. A. (2).

Dendrophis punctulatus, Of Sydney region, general account, Cogger (2).

Diadophis amabilis, Photograph in defensive action, general account, Mertens (5); *D. punctatus*, In terrarium, Rekum; Of Pine Hill area, S. Illinois, Rossman; *D. p. punctatus*, Of Mississippi, Brode; From N. Carolina, pine plantations, White, L. B.; *D. p. arnyi*, On the inner ear, figs., Baird; Of S. Dakota, Fishbeck & Underhill; From Texas, on eggs, Sabath (2); *D. p. edwardsi*, Of Johnson Cnty., Indiana, Holman (2); *D. regalis* subsp., probably *r. regalis* and extends range into Chihuahua from W. Texas, Tanner & Robison (3).

Diaphorolepis wagneri, Of Ecuador, Peters, J. A. (2).

Dinodon semicarinatum, Of Amami, and ecological notes, Koba.

Dipsadoboa, Key of the Cameroons species, *u. unicolor, isolepis, e. elongata, d. duchesnei*, Perret; *D. unicolor unicolor, elongata gracilis, duchesnei duchesnei*, Of Congo Oriental, including ecology, Laurent.

Dipsas, Of the subfamily Dipsadinae, Revision monograph, key to species, figs., ecological notes, evolutionary trends, distribution charts; *articulata* group; *articulata, bicolor* (*N. tricolor* Brattstrom a synonym); *brevifacies* (head figs.); *gaigeae*; *gracilis* (*Sib. macrostomus, hammondi* Amaral a synonym); *mazillaris* (*S. elegans* (part) Amaral

is a synonym); *temporalis* (Lept & Sib. *spurrelli* Blgr. & Amaral; Sib. *sibon* (part Amaral), are synonyms); *tenuissima*; *viguieri*; *calesbyi* group; *calesbyi* (? Sib. macedoi Prado & Hoge is a synonym); *copei* (Lept. pavonina (part Blgr.) is a synonym); *pavonina* (Lept. calesbyi (part Gthr.), *Dip. indica* (non Laur.) Beebe—are synonyms); *vermiculata* sp. nov. (p. 65—type loc.: Chichirota, Lower Bobonaza R., Napo-Pastaza Prov., Ecuador; *indica* group: *indica indica* (Bungarus *bucephalus* Oppell; *Dip. bucephalus* Jan., *D. latifasciatus* non Blgr., Dunn 1946 are synonyms); *i. bucephala*; *i. cisticpes*; *i. ecuadorensis*, subsp. nov. [p. 81, type loc.: Rio Solis, Cavaceras del Rio Bobonaza, 14 km. E.S.E. of Puyo, Napo-Postage Prov., Ecuador]; *neivai*; *oreas* group: *elegans* (Lept. *mikani* non Schleg, Gthr. is a synonym); *ellipsifera*, *oreas* (Lept. *andiana* Blgr., *mikani* (part) Gthr. & Despax; Sib. *andianus* Amaral are synonyms); *polylepis* group; *longicaudata* (Siph. *cervinus cervinus* Amaral, is a synonym); *poecilepis*, *polylepis*, *leucomelas*; *pratti* group, *boettgeri* (S. *bolivianus* Amaral, S. *mikani peruanus* (in part) Amaral are synonyms), *latifasciata* (Sib. *m. peruanus* (part) Amaral, *D. palmeri* (non Blgr.) Parker are synonyms), *latifrontalis* (L. *praeornata* Werner, *palmeri* Blgr., S. *palmeri* Amaral, S. *incertus* (part) Amaral, *D. palmeri* Parker (by inf.) are synonyms); *peruana* (S. *mikani* Amaral is a synonym), *pratti* (Lep. *triseriatus* Cope & Werner, *Lept. nigriceps* Werner, S. *triseriatus* Amaral, *D. variegata* (part) Amaral, *D. niceforoi* Prado, *D. tolimensis* Prado are synonyms), *sanctiannus* (Sib. *m. peruanus* (part) Amaral, S. *caucanus* Rendahl & Vester, are synonyms), *schunkei* (S. *m. peruanus* (part) Amaral is a synonym), *variegata* group; *albifrons* (D. *cavalheiroi* Hoge is a synonym), *incerta* (Lept. *alternatus* Fisch, Coch. *alternata* von Ihering, S. *barbouri* Amaral, S. *garbei* Amaral, S. *alternans* Amaral are synonyms), *variegata variegata* (Lept. *robusta* Muller is a synonym), *v. nicholsi*, *v. trinitatis*, Misc. Publ. Mus. Zool. Univ. Mich., No. 114, 1960, Peters, J. A. (1) Of Ecuador, key to species; *calesbyi*, *ellipsifera*, *gracilis*, *indica indica*, *i. ecuadorensis*, *latifasciata*, *latifrontalis*, *oreas*, *pavonina*, *temporalis*, *variegata variegata*, *v. nicholsi*, *vermiculata*, Peters, J. A. (2); *D. brevifacies*, General observation in B. Honduras, Neill (2); Figs., From British Honduras, and notes on other specimens, Neill & Allen (3); *D. infrenalis*, Remarks on systematic position, Peters, J. A. (1); *D. trinitatis*, Of Trinidad, Wehckind.

Diapholidus typus, On venom extraction, Blake (2); Case history in Rhodesia, Broadley (5); From Ifukara, E. Prov., Tanganyika, Freyvogel; On eating chameleon, figs., Hoesch (1); Fig., in vivarium, Hoesch (3); Of Kruger National Park; Photograph head and neck in defensive action, general account, Mertens (5); Of Brazzaville, C. Afr., Ravisse; On venom and lethal effect, case of K.P.S., Reinhard; Of Parc National du Niokolo-Koba, Senegal, Villiers (2); *D. t. typus*, Preliminary researches on venom, Mangili; *D. t. kivuensis*, On populations compared and validity confirmed, of Congo oriental, Laurent.

Drepanoides anomalus, Of Ecuador, Peters, J. A. (2).

Dromicus, Note on condition in Galapagos, Scott; *D. [Leimadophis] Smith & Grant 1958*, Cuba, *andreae peninsulæ*, subsp. nov. [p. 81, pattern figd.], type loc.: 3 km. W. of Bartoli sawmill village 10 km. S.W. of Cayuco, Pinar del Rio Prov., Cuba, comparison with *a. andreae*, *a. nebulatus*, *a. orientalis*, Herpetologica 16 2 1960, Schwartz, A. & Thomas (4); Of the Galapagos, *biserialis haddensis* of N. & E. Hood Id., figs., *b. eibli*, subsp. nov., type loc.: Wreck Bay, Chatham Id. [p. 136], figs.; *dorsalis dorsalis*, of Barrington, Jarvis, James Ids., *d. helleri*, of Tagus Grove, Albarmarle; *d. occidentalis*, of

Narborough; *slevini steindachneri*, of James & Indefatigable Ids., Mertens (8).

Dromophis, Of Brazzaville, C. Afr., *lineatus*, *praeornatus*, Ravisse; *D. lineatus*, Of Congo oriental, including ecology, Laurent.

Dryadophis boddaerti boddaerti, *pulchriceps*, *heathi* (probably), Of Ecuador, Peters, J. A. (2); *D. melanodolmus slevini*, Of Tres Marias Ids., Zweifel (1); *D. m. veracrucis*, From Teapa, Tabasco, Smith, H. M. (1); *D. sanguiventris*, From Costa Rica, Minton & Smith.

† *Dryinoides* gen. nov. p. 2, Colubridae, Genotype: *D. oxyrhachis* sp. nov. p. 2, text-figs. Madison Valley, Montana, U.S.A., Upper Miocene, Auffenberg (4).

Dryomarchon c. corais, On tail tip as lure, Neill (1); Of Trinidad, Wehckind; *D. c. couperi*, On hatching of eggs and behaviour of young, Groves, F.; *D. c. melanurus*, Record total length of 2950 mm. from Guatemala, Duellman (4); Of Ecuador, Peters, J. A. (2); From Teapa, Tabasco, Smith, H. M. (1); *D. c. rubidus*, From Urigue, Chihuahua, Mexico, Tanner & Robison (3); Of the Tres Marias Ids., *D. c. cleofae* Brock is referred to the synonymy, Zweifel (1).

Drymobius boddaerti, Of Trinidad, Wehckind; *D. m. margaritifera*, From Teapa, Tabasco, Smith, H. M. (1); *D. rhombifer*, Of Ecuador, Peters, J. A. (2).

Drymoluber dichrous, Of Ecuador, Peters, J. A. (2).

Dryocalamus nympha, On the heart, Kashyap; General notes, S. India, Satyamurti.

Dryophis spp., *dispar*, *nasutus*, General notes, S. India, Satyamurti; *D. prasinus*, In captivity, List, Waters & Omar; *D. pulverulentus*, On the heart, Kashyap.

Dryophylax pallidus, Of Santa Cruz, Bolivia, Gans (3).

Duberria lutrix curry-lindahli, Of Congo oriental, including ecology, Laurent; *D. variegata* (?) Of Kruger National Park.

Eirenis collaris, Col. pl. of Armenia, Luppa, Müller, Nicht & Tietze; *E. coronella fraseri*, Of Iraq, Weber.

Elaphe climacophora, On 'wanderings' in captivity, Mertens (15); Comparative histology of thyroid, Yamamoto.

Elaphe conspicillata, Comparative histology of thyroid, Yamamoto.

Elaphe diene, In Korea, Hahn (1); Role in maintenance of C. Asiatic tick-recurrence, Mishchenko; Of W. Kazakhstan, Russia, Paraskiv & Butovski.

Elaphe flavirufa, On 'wanderings' in captivity, Mertens (15).

Elaphe guttata, On keeping in captivity, Bustard (8); *E. g. guttata*, On complete reproductive sequence of captive pair, Holman (3); From N. Carolina, pine plantations, White, L. B.; *E. guttata obsoleta x rossalleni*, On hybridization, figs., Bechtel & Mountain.

Elaphe helena, General notes, S. India, Satyamurti.

Elaphe hohenackeri, Of Armenia, Luppa, Müller, Nicht & Tietze.

Elaphe laeta, On keeping in captivity, fig., Bustard (8).

Elaphe longissima, In Liguria, Capocaccia; Coloured fig., of Sweden, general observations, Curry-Lindahl; On the yolk-sac process, figs., Cilwich; On specimen from and reports of presence in Ustrzyki Dolne Dist., Bieszczady, Poland, Jozefik; Photograph, general account, Mertens (5); On the paratympnum, Simonetta; Of Bärzsöny, Hungary, Szabó; *E. l. longissima*, Photograph, of Europe, general, range, growth, Mertens (4); On 'fighting' behaviour, fig., Thomas, E. See also under *Columbar*.

Elaphe obsoleta, Photographed swallowing a mouse, Hopp & Hiestand; *E. o. obsoleta*, New Ohio record (Belmont Co.), Adler & Dennis (3); On heart rates of unanaesthetized examples, Clarke, G. K., & Marx; Of Johnson Cnty., Indiana, Holman (2); Of Pine Hill area, S. Illinois, Rossman; and *o. quadrivittata*, On keeping in captivity, figs., Bustard (8); *E. obsoleta rosalleni*—see hybridization—*guttata*.

Elaphe oxycephalus, In captivity, Liat, Waters & Omar.

Elaphe quadrigata, On growth and maturity, on marked specimens in nature, figs., Fukada; On 'wanderings' in captivity, Mertens (15); Comparative histology of thyroid, Yamamoto.

Elaphe q. quatuorlineata, Of Corfu, fig., notes, Mertens (12).

Elaphe rufodorsata, In Korea, Hahn (1).

Elaphe scalaris, Rare in the Iles d'Hyeres, France, Knoepfler.

Elaphe schrencki anomala, In Korea, Hahn (1).

Elaphe situla, On tail vibrating in captivity, Blackwell.

Elaphe triaspis, Taxonomic study; there is a key to three sections of the Ratsnakes based on hemipenis (*rosaliae*, *triaspis*, *pantherophis*); *triaspis* forms are: *t. triaspis* for blotched form of Yucatan Peninsula; *t. mutabilis*, the unicolor form of the C. American highlands (photograph); *t. intermedia*, green ratsnake of Arizona and Mexico; fig. of hemipenis and figs. of head patterns, Dowling (2).

Elaphe vulpina vulpina, Of S. Dakota, Fishbeck & Underhill.

Elapecolamus gracilis, Second example, Perret.

Elapomorphus tricolor, Of Santa Cruz, Bolivia, Gans (3).

Enhydriis plumbea, On protective behaviour, Batchelor.

Enicognathus joberti Sauvage 1894. On the systematic position, was doubtfully referred to *Rhadinaea undulata* by Boulenger; it proves to belong to species identified as *Liophis geminatus* Boettger 1885, and Sauvage's name should be used, Hoge (1).

Eridiphas, gen. nov., [p. 2], type species *Hypsigena alevini* Tanner, from Puerto Escondido, south of Loreto, Territorio de Baja, California Sur, Mexico, Occ. Pap. Calif. Acad. Sci. No. 27, 1960, p. 2, photographs, Leviton & Tanner (2).

Erythrolamprus, Of Ecuador, key: *aesculapii aesculapii*, guentheri, minus minus, *m. micrurus*, Peters, J. A. (2); *E. aesculapii*, Of Trinidad, Wehckind; *E. bigonus*, From Costa Rica, Minton & Smith; *E. venustissimus*, Of Santa Cruz, Bolivia, Gans (3).

Ezelencophis [Tantilla] nelsoni, Of Tres Marias Ids., Zweifel (1).

Farancia abacura, Photograph in defensive action, general account, Mertens (5); In terrarium, Bokum; *F. a. reimoardi*, Of Pine Hill area, S. Illinois, Rossman.

Ficimia cana, From Chihuahua, Tanner & Robison (5); *F. publia*, General observations in B. Honduras, Neill (2).

Gordonia leucobalia, On the anatomy, figs., Bergman.

Gastrophys emarginata, Of Congo oriental, including ecology, Laurent; Of Brazzaville, C. Afr., Ravisse.

Geodipsas depressiceps depressiceps, *d. marlieri*, *depressiceps* subsp., Of Congo oriental, including ecology, Laurent.

Geophis, On status with remarks on questionable forms and alliance with *Atractus*; distinction rests on hemipenes; *poepigii* Blgr., *diplozeus* Schmidt & Walker are synonyms of *Atractus elaps*, Savage, J. M. (2); *G. hoffmani*, From Costa Rica, Minton & Smith.

Glyphocercus bicolor, Of Congo oriental, including ecology, Laurent.

Grayia ornata, *tholloni*, *caesar*, Of Congo oriental, including ecology, Laurent; *G. smythii*, Of Brazzaville, C. Afr., Ravisse; Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Haldea striatula, From N. Carolina, pine plantations, White, L. B.; *H. valeriae valeriae*, Range extended in S.E. Mississippi, Lamar Cnty. (100 miles west), Brode; New Ohio records (Vinton Co.), Ehrhart.

Hapsidophrys lineatus, Of Congo oriental, including ecology, Laurent; Of Brazzaville, C. Afr., Ravisse.

Helicops angulatus, Of Trinidad, Wehckind; and *pastazae*, Of Ecuador, Peters, J. A. (2).

Heterodon nasicus nasicus, Possibility that it is venomous, Bragg; Of S. Dakota, Fishbeck & Underhill; *H. n. gloydi*, From Texas, on eggs, Sabath (2); *H. platyrhinos*, New Ohio records (Monroe Co.), Adler & Dennis (3); Of Pine Hill area, S. Illinois, Rossman; *H. p. platyrhinos*, Of S. Dakota, Fishbeck & Underhill; Of Johnson Cnty., Indiana, Holman (2).

Himantodes, see under *Imantodes*.

Hormonotus modestus, Of Congo oriental, including ecology, Laurent; Of Brazzaville, C. Afr., Ravisse.

Hydrops, Probably in Ecuador, Peters, J. A. (2); *H. triangularis*, Of Trinidad, Wehckind.

Hypotaphis wilsoni katangae, First record from N. Rhodesia (Kabompo), Broadley (3).

Hypsigena (part) (*H. selevini*), Tanner 1943; Bogert & Oliver 1945; Tanner 1946; Smith & Taylor 1945, is referred to new genus, *Eridiphas*, Leviton & Tanner (2); *H. torquata* subsp., From Urique, Chihuahua, Mexico, Tanner & Robison (3); *H. t. affinis*, From N.W. Jalisco, *affinis* Boul. is here considered only of subspecific rank, head and neck figured, Tanner & Robison (4).

Hypsihrina alternans, *plumbea*, On the anatomy, figs., Bergman.

Imantodes cenchoa, Of Santa Cruz, Bolivia, Gans (3); Of Trinidad, Wehckind; *I. cenchoa cenchoa*, *inornatus*, *lentiferus*, Of Ecuador, key, Peters, J. A. (2); *I. c. leucomelas*, From Teapa, Tabasco, Smith, H. M. (1); *I. c. semifasciatus*, From Costa Rica, Minton & Smith; *I. gemmistratus latistratus*, Of Tres Marias Ids., Zweifel (1) *H. gracillimus*, In captivity, Belz.

Lampropeltis calligaster calligaster, On the inner ear, figs., Baird; Record of 17 egg-clutch, Dietrich.

L. c. rhombomaculata, Description of an albino specimen from Georgia, Collins.

Lampropeltis dolata, Of S. Dakota, Fishbeck & Underhill; *L. d. dolata*, From N. Carolina, pine plantations, White, L. B.; *L. d. arcifera*, From N.W. Jalisco, Tanner & Robison (4); *L. d. micropholis*, Of Ecuador, Peters, J. A. (2); *L. d. polyzona*, General observations in B. Honduras, Neill (2); *L. d. syspila*, Of Pine Hill area, S. Illinois, Rossman; *L. d. triangulum*, New Ohio records (Noble Co.), Adler & Dennis (3); In captivity, Bustard (5); Ecology, of Mud Lake bog, Washtenaw Cnty., Michigan, Heatwole & Getz; On cannibalism, Skehan.

Lampropeltis elapsoides elapsoides, Figs., In captivity, Bustard (5).

Lampropeltis getulus, Of Pine Hill area, S. Illinois, **Rossman**; *L. g. getulus*, From N. Carolina, pine plantations, **White**, L. B.; (Figs.), and *L. californiae*, *g. holbrooki*, In captivity, **Bustard** (5); *L. g. brooksi*, Length record of 57 inches from Monroe Cnty., Florida, **Cryan**; *L. g. californiae*, *g. holbrooki*, On heart rates of unanesthetized examples, **Clarke**, G. K. & **Marx**; *L. g. splendens*, Range extended to C. Chihuahua, Mexico, **Tanner & Robison** (5).

Lampropeltis pyromelana, In captivity, **Bustard** (5).

Lampropeltis triangulum elapsoides, In terrarium, **Rekum**; *L. t. polyzona*, From Teapa, Tabasco, **Smith**, H. M. (1); *L. t. schmidtii*, Of Tres Marias Ids., **Zweifel** (1).

Lamprophis inornatus, Photograph, **Reece**.

Leimadophis, Of Ecuador, key to species; *abiventrif*, *bimaculatus lamona*, *epinephalus ecuadorensis*, *fraseri*, *poecilogyrus*, *pygmaeus*, *reginae reginae*, *simonsi*, *taeniurus taeniurus*, *typhlus*, **Peters**, J. A. (2); *L. melanotus*; *reginae*, Of Trinidad, **Wehckind**; *L. poecilogyrus pictostriatus*, On a partial albino of Rio Grande do Sul, vii, fig., **Lema**; *L. typhlus*, Of Santa Cruz, Bolivia, **Gans** (3).

Leptodeira spp., On 'wanderings' in captivity, **Mertens** (15); *L. annulata*, On eating salamanders and newts in captivity, **Skehan**; Of Trinidad, **Wehckind**; *L. a. annulata*, *septentrionalis ornata*, *s. larcorum*, key, Of Ecuador, **Peters**, J. A. (2); *L. a. ashmeadi*, On two-headed specimen, fig., **Belluomini & Lancini** (1); *L. a. pulchriceps*, Of Santa Cruz, Bolivia, **Gans** (3); *L. a. rhombifera*, Original remarks to this specimen, on p. 110, line 25, has been amended as follows:—A single specimen from the western edge of the city of San Salvador was found in a shallow pond and had eaten an *Eupemphiz* and a *Hyla staufferei*; [the erratum continues with a reference to] *L. septentrionalis ornata* × *s. polysticta*, from Golfo, Costa Rica [and an unfinished reference to *Leptophis a. occidentalis*], **Minton & Smith**; *L. septentrionalis polysticta*, From Teapa, Tabasco, **Smith**, H. M. (1).

Leptognathus andrei, *brevif*, Discussion on species and systematic position, **Peters**, J. A. (1).

Leptophis, Of Ecuador, key to species: *cupreus*, *depressirostris*, *ahaetulla bocourti*, *a. nigromarginatus*, *a. occidentalis*, *riveti*, **Peters**, J. A. (2); *L. ahaetulla*, Photograph, general account, **Mertens** (5); *L. cupreus* (Cope) is a valid species, **Peters**, J. A. & **Orcés**, V. (4); *L. depressirostris*, From Costa Rica [Erratum in 16 4 p. 332, refers to] = *L. ahaetulla occidentalis* (Gthr.), One adult found by . . . [unfinished] **Minton & Smith**; *L. diplotropis*, Of Tres Marias Ids., **Zweifel** (1); *L. m. mexicana*, *occidentalis praestans*, From Teapa, Tabasco, **Smith**, H. M. (1).

Liophis, Of Ecuador, key to species: *albiceps*, *breviceps*, *cobella*, *festae*, *purpurans*, *subocularis*, **Peters**, J. A. (2); *L. cobella*, Of Trinidad, **Wehckind**.

Lycodon spp., *auilicus* (fig.), *striatus*, General notes, S. India, **Satymurti**; *L. a. auilicus*, Histochemical study of lipids in oocytes, **Guraya** (2); *L. striatus*, On the heart, **Kashyap**.

Lycodonomorphus rufulus, Of Kruger National Park; *L. r. whytii*, From Ifakara, E. Prov., Tanganyika, **Freyvogel**.

Lycophidion capense capense, Of Kruger National Park; *L. c. jacksoni*, *ornatum*, Of Congo oriental, including ecology, **Laurent**; *L. semicinctum*, From Portuguese Guinea, **Villiers** (1); Of Parc National du Niokolo-Koba Senegal, **Villiers** (2).

Lygophis boursieri, *lineatus lineatus*, *whymperi*, Of Ecuador, **Peters**, J. A. (2).

Lystrophis semicinctus, Of Santa Cruz, Bolivia, **Gans** (3).

Lytorhynchus diadema, From Iraq, **Khalaf**; *L. d. diadema*, Of Morocco, **Pasteur & Bons** (7).

Macropisthodon plumbicolor, On the heart, **Kashyap**; General notes, S. India, **Satymurti**; *M. rhodomelas*, *flaviceps*, On protective behaviour, **Batchelor**.

Macropophis, Species contained in this series: *barbouri*, *dendrophlops*, *halmaherica*, *hypomela*, *maculata*, *melanoccephala*, **Malnate** (2).

Macropotodon cucullatus, From Doukkala plains, Morocco, **Bons** (1); Of Galita Ids., Tunisia, **Lanza & Bruzzone** (1); Of Lampedusa, figs., biogeography, **Lanza & Bruzzone** (2); *M. c. brevis* (*Coronella brevis*, *Macrop. maroccanus* in synonymy), *c. cucullatus*, Of Morocco, **Pasteur & Bons** (7).

Malpolon moileensis, *monspessulanus monspessulanus*, *m. insignitus* (addition), of Morocco, **Pasteur & Bons** (7); *M. monspessulanus*, From Iraq, **Khalaf**; Abundant in the Iles d'Hyeres, France, **Knoepfler**; *M. m. monspessulanus*, From Doukkala plains, Morocco, **Bons** (1); In Liguria, **Capocaccia**; *M. m. insignitus*, of Lampedusa, figs., notes on subspecies, biogeography, **Lanza & Bruzzone** (2); Of Corfu, notes, **Mertens** (13).

Masticophis lineatus, Of the Tres Marias Ids., *M.*, *flagellum variolosus* **Smith** is referred to in the synonymy **Zweifel** (1).

Mehelya, Of Brazzaville, C. Afr., *poensis*, *stenophthalmus*, **Ravisse**; *M. capensis capensis*, Of Kruger National Park; *M. c. unicolor*, *poensis*, *stenophthalmus*, Of Congo oriental, including ecology, **Laurent**.

Meizodon coronatus, Of Parc National du Niokolo-Koba, Senegal, **Villiers** (2); *M. semiornatus semiornatus*, From Ifakara, E. Prov., Tanganyika, **Freyvogel**.

Miodon gabonensis brachyurus, subsp. nov. (p. 34), type loc.: sud de l'île Idjivi, Kivu, *collaris collaris*, *christyi*, *fulvicollis gracilis*, of Congo oriental, Ann. Mus. Congo belge 84 1960, **Laurent**.

Natriciteres olivacea olivacea, Of Congo oriental, including ecology, **Laurent**.

Natrix, On systematic division and evolution; key to species of *Natrix* (sensu lato); *Macropophis*, *Fowlea*, *Rhabdophis*, *Natrix*, *Amphisma*; species contained in *Natrix* are:—*aequi fasciata*, *annularis*, *anoscopus*, *bellula*, *cyclopion*, *erythrogaster*, *firestonei*, *grahami*, *harteri*, *kirtlandi*, *maura*, *natrix*, *percarinata*, *rhombifera*, *rigida*, *septemvittata*, *sipedon*, *taxispilota*, *tessellata*, *trianguligera*, *valida* [For other species see under the genera quoted above], **Malnate** (2); A comparative study of selected skeletal characters, species used; *Regina* group, *grahami*, *septemvittata*, *kirtlandi*, *rigida*.—*Sipedon* group, *s. sipedon*, *erythrogaster transversa*, *r. rhombifera*, **Nakamura & Smith**.

Tropidonotus baramensis, On the identity, should be assigned to genus *Pseudonotus*, figs. of hemipenes, and palato-maxillary, **Malnate** (1).

Natrix cyclopion, On placental transmission of Na²³ and I¹³¹, figs., **Conaway & Fleming**; Observations on nasal obstruction, and mechanical sloughing, during pre-moult period, **McDonald**, H. S.; *N. c. cyclopion*, Of Pine Hill area, S. Illinois, **Rossman**.

Natrix erythrogaster, Of Pine Hill area, S. Illinois, **Rossman**; *N. e. transversa*, Of Mexican desert, fig., **Conant** (2).

Natrix kirtlandi, Of Johnson Cnty., Indiana, Holman (2).

Natrix maura, From Doukkala plains, Morocco, Bons (1); In Liguria, Capocaccia; Abundant in the Iles d'Hyeres, France, Knoepfler; Of Galita Ids., Tunisia, Lanza & Bruzzone (1); Photograph, of Europe, general, range, growth, Mertens (4); Of Morocco, Pasteur & Bons (7); (*viperina*), Of France, Weseman.

Natrix natrix, In Zealand, Holland, Bree; Coloured figs., of Sweden, general observations, Curry-Lindahl; On the yolk-sac process, figs., Cwiliich; In London area, Fitter; On thymus extracts, Goslar; Of the Linz autobahn area, Hamann; With black cross-banding, photograph from Sweden, Kauri; Photograph of head, general, account, Mertens (5); Of W. Kazakhstan, Russia Paraskiv & Butovski; On pneumogastric nerve in heart region, figs., Julien, Acolat & Provost; On the paratympnum, Simonetta; Of Börzsöny, Hungary, Szabó; [*N. natrix*], Mating March 25th in Dorset, Gooch; In Surrey, Hayman; *N. natrix* × *tessellata*, On 'wanderings' in captivity, Mertens (15); *N. natrix*, On development of hypophyseal vascular system, figs., Enemar; Photograph, of Europe, general, range, growth, Mertens (4); *N. n. aestreptophora*, Of Morocco, Pasteur & Bons (7); *N. n. helvetica*, In Liguria, Capocaccia; Photograph, of Europe, general, range, growth, Mertens (4); On habitats in Belgian Ardennes, Tercas; *N. n. persa*, Of Armenia, Lupp, Muller, Nicht & Tietse.

Natrix piscator, Free amino acids, in blood, Nair; Fig., general notes, S. India, Satyamurti; Of Province de Quang-tri, C. Vietnam, Tien.

Natrix pryri, Of Amami, with notes on food, Koba; On interpopulation variation; *p. ishigakiensis*, subsp. nov., type loc.: Ishigaki-shima, Yaeama group, Riuku Ids., Proc. Calif. Acad. Sci. (4) 31 28 1960, p. 61, figs., Malnate & Munsterman (3).

Natrix rhombifera, Observations on nasal obstruction, and mechanical sloughing, during pre-moult period, McDonald, H. S.; *N. r. rhombifera*, Of Pine Hill area, S. Illinois, Rossman; *N. r. verleri*, From Teapa, Tabasco, Smith, H. M. (1).

Natrix septemvittata, A fish and a snail in the diet, Adler & Tilley (4); In the interior highlands of Arkansas and Missouri, charts, Conant (1); New Ohio records (Morrow Co.), Adler & Dennis (3).

Natrix sipedon, On natural selection in Middle Id., Lake Erie, Ehrlich & Camin; On placental transmission of Na²² and I¹³¹, fig., Conaway & Fleming; In terrarium, photo, Reum; *N. s. sipedon*, New Ohio records (Anglaize, Delaware, Morgan, Morrow Cnts.), Adler & Dennis (3); New Ohio records (Anglaize Co.), Ehrhart; Ecology, of Mud Lake bog, Washtenaw Cnty., Michigan, Heatwole & Getz; Subsp., Of Johnson Cnty., Indiana, Holman (2); *N. s. confuens*, Observations on nasal obstruction, and mechanical sloughing, during pre-moult period, McDonald, H. S.; and *s. clarki*, Multiple haemoglobins, Gratzer & Allison; *N. s. pleuralis*, Of Pine Hill area, S. Illinois, Rossman.

Natrix stolata, Chromosome cytology, Bhatnagar; General notes, S. India, Satyamurti.

Natrix tessellata, In Zealand, Holland, Bree; In Liguria, Capocaccia; On the yolk-sac process, figs., Cwiliich; Photograph, general account, Mertens (5); Of W. Kazakhstan, Russia, Paraskiv & Butovski; Of Börzsöny, Hungary, Szabó; *N. t. tessellata*, From Iraq, Khalaf; Photograph, of Europe, general, range, growth, Mertens (4); Figs., on melanism, Mertens (10); Of Corfu, notes, Mertens (13).

Natrix tigrina tigrina, Comparative histology of thyroid, Yamamoto; *N. t. lateralis*, In Korea, Hahn (1).

Natrix valida, Recorded from Sonora (3 mls. N. of Ciudad Obregon) with notes on habitat, McCoy, Branson, & Sisk (2).

Natrix vibakari vibakari, Comparative histology of thyroid, Yamamoto.

Neusterophis, Of Brazzaville, C. Afr., olivaceus, fuliginoides, Ravisse; *N. olivaceus uluguruensis*, Of Kruger National Park.

Ninia atrata hudsoni, Of Ecuador, Peters, J. A. (2);

N. maculata maculata × *m. tessellata*, From Costa Rica, Minton & Smith; *N. s. sebae*, From Teapa, Tabasco, Smith, H. M. (1).

Nothopsis rugosus, Of Ecuador, Peters, J. A. (2).

Oligodon spp., General notes, S. India, Satyamurti; *O. annamensis*, Notes on a second specimen, from Blao, C. Viet Nam, and observations on relationship, Leviton (1); *O. taeniolatus*, On the heart, Kashyap.

Ophedrys aestivus, Multiple haemoglobins, Gratzer & Allison; Population study from Jefferson Parish, Louisiana, charts, Tinkle; *O. a. aestivus*, Of Pine Hill area, S. Illinois, Rossman; *O. semicarinata*, Of Tokara Ids., Shibata; *O. s. fritzei*, Of Amami, and ecological notes, Koba; *O. vernalis vernalis*, Habitat, food, reproductive state and intestinal parasites of London, Ontario, Judd; *O. v. blanchardi*, Of S. Dakota, Fishbeck & Underhill.

Oxybelis, Of Ecuador, key to species, Peters, J. A. (2).

Oxybelis aeneus aeneus, Of Ecuador, Peters, J. A. (2); Of Trinidad, Wehckind; *O. a. auratus*, From Teapa, Tabasco, Smith, H. M. (1); Of Tree Marias Ids., Zweifel (1).

Oxybelis argenteus, Of Ecuador, Peters, J. A. (2).

Oxybelis brevirostris, Of Ecuador, Peters, J. A. (2).

Oxybelis fulgidus, General observations in B. Honduras, Neill (2); Of Trinidad, Wehckind.

Oxyrhopus fitzingeri frizzelli formosus, melanogenys, petola, Key, of Ecuador, Peters, J. A. (2); *O. p. petola*, Of Trinidad, Wehckind; *O. rhombifer*, Of Santa Cruz, Bolivia, Gans (3).

Philodryas elegans rufidorsata, viridissima, Of Ecuador, Peters, J. A. (2); ? *P. psammophideus*, Of Santa Cruz, Bolivia, Gans (3).

Philothamnus and *Chlorophis*, Discussion on autonomy of latter genus, Laurent.

Philothamnus heterodermus, Of Brazzaville, C. Afr., Ravisse; *P. h. carinatus, h. ruandae*, Of Congo oriental, including ecology, Laurent.

Philothamnus heterolepidotus, From Ifakara, E. Prov., Tanganyika, Freyvogel; Of Congo oriental, including ecology, Laurent.

Philothamnus hoplogaster, Of Congo oriental, including ecology, Laurent; *P. (Chlorophis) hoplogaster* (?), Of Kruger National Park.

Philothamnus irregularis, Of Brazzaville, C. Afr., Ravisse; (C), Captive poisoned after eating *Triturus vulgaris*, Blackwell; *P. i. irregularis*, Of Congo oriental, including ecology, Laurent; Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Philothamnus nitidus, Of Brazzaville, C. Afr., Ravisse; From Portuguese Guinea, Villiers (1); *P. n. loveridgei*, subsp. nov., type loc. Itula, 650 m., Territoire de Shabunda, Kivu; paratypes, Irangi and Homba, Ann. Mus. Congo belge 84, 1960, p. 40, Laurent.

Philothamnus ornatus, Further records from S. Rhodesia, Broadley (4).

Philothamnus semivariatus, Of Congo oriental, including ecology, Laurent; Of Brazzaville, C. Afr., Ravisce; *P. s. semivariatus*, From Ifakara, E. Prov., Tanganyika, Freyvogel; (C.), Of Kruger National Park.

Philothamnus variegatus, From Portuguese Guinea, Villiers (1).

Phimophis, Probably in Ecuador, Peters, J. A. (2).

Pituophis catenifer sayi, Of S. Dakota, Fishbeck & Underhill; *P. deppei*, A taxonomic study, *d. deppei*, fig. distribution, S. Chihuahua and S. Coahuila Southward on the western and central parts of the Mexican Plateau to the Valley of Mexico and to S.E. Puebla and adjacent Veracruz; *d. jani*, distribution, Eastern part of the Mexican Plateau and lower leeward slopes of the Sierra Madre oriental from Hidalgo and Queretaro northward to S.E. Coahuila; *lineaticollis lineaticollis*, Cope fig. new combination, distribution, the southern part of the Mexican Plateau in the States of Michoacán, Mexico, and Morelos, the Sierra de Coalcoman in S. Michoacán, and the Sierra del Sur in Guerrero and Oaxaca; *l. gibsoni* Stuart new combination, distribution, Guatemalan highlands and probably highlands of Chipas; *lineaticollis lineaticollis* Cope, new combination, syn. includes, *Arizona lineaticollis*, *Pituophis l.*, *P. deppei lineaticollis* and *d. brevilineata* Schmidt & Shannon, 1947; *l. gibsoni* Stuart, new combination, syn. includes *deppei gibsoni*, see also under *deppei* for distribution, Duellman (2); *P. melanoleucus ruthveni*, Another Texas record (18 mls. S.W. of the Joe's Lake oil field), Mitchell & Tinkle; *P. m. sayi*, On heart rates of unanesthetized examples, Clarke, G. K. & Marx.

Ptiocercus e. elapoides, From Teapa, Tabasco, Smith, H. M. (1); *P. elapoides hobartsmithi*, subsp. nov., type loc.: El Salto Falls, San Luis Potosí, Mexico, Southwestern Nat. 5 (4) 1960, p. 217, Limer; *P. euryzona euryzona*, Of Ecuador, Peters, J. A. (2); *P. e. dimidiatus*, From Costa Rica, Minton & Smith.

Prosymna ambigua, Of Brazzaville, C. Afr., Ravisce; *P. a. urundensis*, Of Congo oriental, including ecology, Laurent; *P. meleagris*, Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Psammophis sp. ?, Of Kruger National Park

Psammophis angolensis, From Ifakara, E. Prov., Tanganyika, Freyvogel.

Psammophis elegans, Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Psammophis jallae, From Wedza, Rhodesia, easterly record, Rickson.

Psammophis leightoni trinasalis, Fig., in vivarium, Hoesch (3).

Psammophis notostictus, Of S.W. Africa, Hoesch (2).

Psammophis schokari, Of Morocco, Pasteur & Bons (7).

Psammophis sibilans, Of S.W. Africa, Hoesch (2); Of Congo oriental, including ecology, Laurent; Of Brazzaville, C. Afr., Ravisce; From Portuguese Guinea, Villiers (1); *P. s. sibilans*, From Ifakara, E. Prov., Tanganyika, Freyvogel; Of Kruger National Park; Preliminary researches on venom, Mangili; Probably in Morocco, Pasteur & Bons (7); Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Psammophis s. subtaeniatus, From Binga, S. Rhodesia, Broadley (2); *P. s. sudanensis*, From Ifakara, E. Prov., Tanganyika, Freyvogel.

Psammophylax rhombatus, Sight record, 1955; *tritaeniatus tritaeniatus*, Of Kruger National Park; *P. t. tritaeniatus*, Preliminary researches on venom, Mangili.

Pseudaspis cana, Attention to error in Copeia 1959: 71-72 on use of both hemipene, corrected to one, two lobes, Brain (2); Fig., In captivity, on colour-dimorphism, Hoesch (3); Of Kruger National Park.

Pseudoboa coronata, Of Ecuador, Peters, J. A. (2); Of Trinidad, Wehckind; *P. guerini*, Of Santa Cruz, Bolivia, Gans (3).

Pseudoeryx, Probably in Ecuador, Peters, J. A. (2).

Pseustes poecilonotus polylepis, *shropshirei*, *sulphureus sulphureus*, Of Ecuador, key, Peters, J. A. (2); *P. sulphureus*, Of Trinidad, Wehckind.

Ptyas mucosus, On sound production, Abdulali (1); Chromosome cytology, Bhatnagar; Free amino acids in blood, Nair; Fig., general notes, S. India, Satyamurti; Photograph, general, and *m. nigricans* (from Russia), Hoesch (1); *P. m. maximus*, Observations on mating in Ceylon, Deraniyagala (7).

Regina Baird & Girard is revived for *Natrix* species, *grahami*, *kirtlandi*, *rigida*, *septemvittata*, Smith, H. M. & Huheey (2); Proposal to designate a type-species, and to suppress the specific name *leberis* Linn. 1758, Smith, H. M. & Huheey (3).

Rhabdophis, Species contained in this genus:—*angeli*, *auriculata*, *callichroma*, *ceylonensis*, *chrysaeris*, *chrysargoides*, *himalayana*, *lineata*, *murudensis*, *nigrocincta*, *nuchalis*, *epilogaster*, *subminiata*, *swinhonis*, *tigrina*, *Malnate* (2); *P. saravacensis* ?, Of Province de Quang-tri, C. Vietnam, Tien.

Rhabdosoma brevifrenum Jan, *pöppigi* Jan are synonyms of *Attractus elaps*, Savage, J. M. (2).

Rhadinaea brevirostris, *lateristriga lateristriga*, *pachyura fulviceps*, Of Ecuador, Key, Peters, J. A. (2); *R. flavilata*, Of Mississippi, on tail length as distinguishing character, Brode; From N. Carolina, pine plantations, White, L. B.; *R. genimaculata*, Of Santa Cruz, Bolivia, Gans (3).

Rhammophis aethiopissa ituriensis, Of Congo oriental, including ecology, Laurent.

Rhammophis multimaculatus, Of S.W. Africa, Hoesch (2); *R. oxyrhynchus*, Of Parc National du Niokolo-Koba, Senegal, Villiers (2); *R. o. rostratus*, From Ifakara, E. Prov., Tanganyika, Freyvogel.

Rhinobothryum bovallii, Of Ecuador, Peters, J. A. (2).

Rhinocheilus lecontei tessellatus, From Chihuahua, Mexico, Tanner & Robison (5).

Salvadora hexalepis, From Cuyama R., just inside San Luis Obispo Co., California; *h. virgultea/mojavensis* characters, Pimental (1).

Scaphiophis albopunctatus, Of Brazzaville, C. Afr., Ravisce.

Seminatrix pygaea paludis, Range in N. Carolina extended above the Pamlico Sound about 70 mls. N.E. of Beaufort, Palmer, W. P. & Whitehead.

Sibon Of the subfamily Dipsadinae, Revision monograph, key to species, figs., ecological notes, evolutionary trends, distribution charts; *annulata* group, *annulata* (*L. pictiventris* Cope, *S. pictiventris* Barb. & Dunn, are synonyms), *anthracops* (*S. ruthveni* Barb. & Dunn is a synonym), *dimidiata dimidiata* (*P. multifasciatus* Jan, *M. multifasciatus* Cope, *S. sibon* Stuart, are synonyms), *d. grandoculis*, *sannicola*; *argus* group, *longifrenis* (*D. costaricensis* Taylor is a synonym); *nebulata* group,

carri, dunni, nebulata nebulata (C. *sibon* Linn, *L. affinis* Fisch., *D. leucomelas* Cope, *L. leucomelas* Beebe, *S. mikani* Ruthv., *S. sibon* Amaral are synonyms), *n. hartwegi*, subsp. nov. (p. 200, type loc., Barrancabermeja, Santander Prov., Colombia) (? *S. leucomelas* Amaral is a synonym), *n. leucomelas* (*S. sibon* Schmidt is a synonym), *n. popayanensis*, subsp. nov. (p. 203, type loc. Popayan, 1700 m., Cauca Prov., Colombia), Misc. Publ. Mus. Zool. Univ. Mich., No. 114, 1960, **Peters, J. A. (1); S. dunni, nebulata nebulata, nebulata leucomelas, of Ecuador, key. **Peters, J. A. (2); S. nebulatus, Of Trinidad, **Wehckind**.****

Sibynomorphus, Of the subfamily Dipsadinae, Revision monograph, key to species, figs., ecological notes, evolutionary trends, distribution charts; *inaequifasciatus*, *mikani mikani* (*Lept. garmani* Cope, *S. turgidus* (nec Cope) Amaral, *S. m. fasciatus* Schmidt & Inger) *em. neuvi* (*S. m. fasciatus* Amaral is a synonym), *turgidus* (*Coch. inaequifasciatus* (nec D. & B.) Cope, *Lept. atypicus* Cope, *P. atypicus* Blgr., *L. mikani* (nec Schleg), Lonnb., *Trop. epilogaster* Griffin, *P. epilogaster*, Dunn are synonyms), *vagrans*, *ventrimaculatus* (*L. mikani* (nec Schleg) Boettg., *L. turgida* (partim non Cope) Berg, *C. mikani* Berg, *L. intermedius* von Steindachner, *L. mikani* (part) Werner, *C. intermedius* von Ihering, *C. mikani* (nec Schleg), Bertoni, *S. turgidus* (part) Amaral are synonyms), **Peters, J. A. (1); S. turgidus, Of Santa Cruz, Bolivia, **Gans. (3)**.**

Simopsis rhinostoma, Coloured photograph, general account, **Mertens (5)**.

Siphophis, Probably in Ecuador, **Peters, J. A. (2); S. cervinus, Of Trinidad, **Wehckind**.**

Sonora semiannulata isozonae, From Chihuahua, Mexico, **Tanner & Robison (5)**.

Spalerosophis, see also under *Coluber*.

Spalerosophis cliffordi, From Iraq, **Khalaf; S. diadema cliffordi, *d. dolichoepilus*, Of Morocco, **Pasteur & Bons (7)**.**

Spilotes pullatus, Of Trinidad, **Wehckind; S. p. pullatus, Of Jacarecanga, Estado do Pará, Brazil, **Hoge & Belluomini (2); Of Ecuador, Peters, J. A. (2); S. p. mexicanus, From British Honduras, notes on coloration in young, figs., **Neill & Allen (3); From Teapa, Tabasco, Smith, H. M. (1)**.****

Stenorhina degenhardtii degenhardtii, Of Ecuador, **Peters, J. A. (2); S. f. freminvillei, Fig., from British Honduras, with notes on other specimens, **Neill & Allen (3)**.**

Storeria dekayi, A single record in S. Dakota, **Fishbeck & Underhill; In terrarium, head photographed, **Rekum; and occipitamaculata, Ecology, of Mud Lake bog, Washtenaw Cnty., Michigan, **Heatwole & Getz; S. d. dekayi, Melanistic specimens from N.Y., **Heckman; S. d. wrightorum, A 19½ inch from Atlanta, Georgia, **Bond; Of Pine Hill area, S. Illinois, Rossman; S. occipitamaculata occipitamaculata, Of S. Dakota, **Fishbeck & Underhill; Of Pine Hill area, S. Illinois, Rossman; S. storerioides, In W. Mexico, Yaguirachic, 8500 ft., 130 mls. W. Chihuahua, range extended 400 mls. N. of El Salto locality, map of Mexican geographic distribution, notes on melanistic specimens, observation on breeding time, **Anderson, J. D.; First record for Chihuahua, Mexico, Tanner & Robison (5)**.************

Streptophorus atractus, Rare in Trinidad, **Wehckind**.

Synopsis lasallei, miops, Of Ecuador, **Peters, J. A. (2)**.

Tantilla, Of Ecuador, key to species, *fraseri, longifrontalis, melanocephala melanocephala, m. capistrata, supracincta*, **Peters, J. A. (2); T. calamarina, Of Tres Marias Ids., **Zweifel (1); T. (gracilis), From Jim Hogg Co.,****

Texas, with red-colour ventral surface, range extension from Duval Co., **Grant (5); T. g. hallowelli, Of Pine Hill area, S. Illinois, **Rossman; T. melanocephalum, Of Trinidad, **Wehckind; T. n. nigriceps, From Chihuahua, Mexico, **Tanner & Robison (5); T. utahensis, A second specimen from Inyo Cnty., California, **Banta (1)**.********

Taphrometopon lineolatum, Role in maintenance of *C. Asiatic* tick-recurrence, **Mishchenko**.

Telescopus semiannulatus, Of Kruger National Park.

Thalerophis richardi coerulescens, Of Trinidad, **Wehckind**.

Thamnodynastes nattereri, pallidus (probably), Of Ecuador, **Peters, J. A. (2)**.

Thamnophis spp., On 'wanderings' in captivity, **Mertens (15)**.

Thamnophis butleri, Ecology of Mud Lake bog, Washtenaw Cnty., Michigan, **Heatwole & Getz; Record birth of 18 young to 19 inch adult, Ohio (Licking Co.), Witten**.

Thamnophis elegans vagrans, Of S. Dakota, **Fishbeck & Underhill**.

Thamnophis eques eques × *e. megalops*, From Jalisco, **Grant & Smith (6)**.

Thamnophis melanogaster canescens, From Jalisco, **Grant & Smith (6)**.

Thamnophis ordinatus parietalis, On the inner ear, figs., **Baird**.

Thamnophis ordinoides vagrans, On overwintering of Western equine encephalomyelitis virus, **Thomas, L. A. & Eklund**.

Thamnophis radix, On the inner ear, figs., **Baird; T. r. kaydeni, Of S. Dakota, **Fishbeck & Underhill**.**

Thamnophis sauritis sauritis, New Ohio records (Columbiana Co.), **Adler & Dennis (3); New Ohio records (Paulding Co.), Ehrhart; Ecology, of Mud Lake bog, Washtenaw Cnty., Michigan, Heatwole & Getz; T. s. chalcus, General observations in B. Honduras, **Neill (2); From Teapa, Tabasco, Smith, H. M. (1); T. s. proximus, On 'wandering' in captivity, **Mertens (15); Of Pine Hill area, S. Illinois, Rossman**.****

Thamnophis sirtalis, Multiple haemoglobins, **Gratzer & Allison; Minimum length of newly born, 146 mm., from Ohio, Hahn (2); On temperature barrier against parasitic amoebae, Meerovitch; T. s. sirtalis, Of Huntingdon Cnty., Pennsylvania, **Bell; Ecology, of Mud Lake bog, Washtenaw Cnty., Michigan, Heatwole & Getz; Of Johnson Cnty., Indiana, Holman (2); Of Pine Hill area, S. Illinois, Rossman; T. s. concinnus, On first record of a brood of Oregon, **Rothman; T. sirtalis parietalis, Of S. Dakota, **Fishbeck & Underhill; On overwintering of Western Equine encephalomyelitis virus, Thomas, L. A. & Eklund**.******

Thelotornis kirilandi, Case history of bite in Bulawayo, **Blaylock (1); Of Congo oriental, including ecology, Laurent; Photograph in defensive action, general account, Mertens (5); Of Brazzaville, C. Afr., Ravisse; T. k. capensis, Of Kruger National Park; Preliminary researches on venom, **Mangili; T. k. oatesii, From Mtorashanga, S. Rhodesia, total length, 1682 mm., **Broadley (2)**.****

Thrasops cupreus Cope 1868, see under *Leptophis; T. flavipularis*, Of Brazzaville, C. Afr., **Ravisse; T. jacksoni jacksoni, Of Congo oriental, including ecology, **Laurent**.**

Tretanorhinus nigroluteus lateralis, First record from Tebasco (Teapa), **Smith, H. M. (1)**; *T. taeniatus*, Of Ecuador, **Peters, J. A. (2)**.

Trimetopon pliolepis, From Costa Rica, **Minton & Smith**.

Trypanurgus compressus, Of Ecuador, **Peters, J. A. (2)**.

Tropidoclonium lineatum, Of S. Dakota, **Fishbeck & Underhill**; *T. l. annectans*, Distribution in Kansas, **Legler (1)**.

Tropidodipsas s. sarti, From Teapa, Tabasco, **Smith, H. M. (1)**.

Tropidonotus, see under *Natrix*.

Trypanurgus compressus, Of Trinidad, **Wehckind**.

Urotheca brevisrostris, First record from Brazil (Jacarecanga, Estado do Pará), **Hoge & Belluomini (2)**.

Virginia valeriae elegans, Of Pine Hill area, S. Illinois, **Rossman**.

Xenocalamus mechovi mechovi, Of Brazzaville, C. Afr., **Ravisse**; *X. transvaalensis*, Notes on recorded specimens, Transvaal, Mozambique, and Sabi Experimental Station, near Sabi-Tanganda Confluence, **Broadley (2)**.

Xenodon merremi, severus, Of Santa Cruz, Bolivia, **Gans (3)**; *X. mexicanus*, Photograph, general observations in B. Honduras, **Neill (2)**; *X. rhabdocephalus, severus*, Of Ecuador, **Peters, J. A. (2)**; *X. r. rhabdocephalus*, From Costa Rica, with note on precedence of name over *colubrinus*, **Minton & Smith**.

Xenopholis scalaris, Of Ecuador, **Peters, J. A. (2)**.

Xylophis perroteti, General notes, S. India, **Satyamurti**.

Zamenis viridiflavus viridiflavus, On pneumogastric nerve in heart region, figs., **Jullien, Acolat & Provost**.

CROTALIDAE

see under VIPERIDAE

ELAPIDAE

List of genera and species of Brazzaville, note on venom and bacteriology, **Ravisse**; General notes of S. India, Madras museum exhibition gallery, **Satyamurti**.

Acanthophis antarcticus, Of Sydney region, general account, **Cogger (2)**; Photograph, general account, **Mertens (5)**; On tail colour, **Neill (1)**; General observations, figs. of head, **Ruiter (4)**.

Aspidelaps scutatus, Of Kruger National Park.

Aspidomorphus schlegelii, General observations, head fig., **Ruiter (4)**; *A. squamulosus, diadema*, Of Sydney region, general account, **Cogger (2)**.

Boulengerina annulata annulata, Of Congo oriental, including ecology, **Laurent**; *B. annulata stormi*, General observations, **Loveridge**; Preliminary researches on venom, **Mangili**.

Bungarus fasciatus, On venom, force feeding, photo., **Petzold (2)**; and *candidus* (fig.), Of the East Indies, general, **Ruiter (1)**; *B. flaviceps*, General, in Indonesia, **Ruiter (3)**; and *javanicus* (figs.), General notes, in Indonesia, **Ruiter (2)**; *B. caeruleus* (fig.), *fasciatus* (fig.), General notes, S. India, **Satyamurti**; *B. caeruleus, ceylonicus*, Of Ceylon, on venom, treatment, **Ponnambalam**; *B. candidus*, In captivity, **Liat, Waters & Omar**; *B. multicinctus*, On venom, **Yang (4)**.

Calliophis japonicus, boettgeri, Of Amami, and ecological notes, **Koba**; *C. gracilis*, Of the East Indies, general, **Ruiter (1)**; General, in Indonesia, **Ruiter (3)**.

Callophis, see *Calliophis* **Ruiter**.

Demansia textiles, General observations and venom, **Reilly**; and *psammophis* (photograph), Of Sydney region, general account, **Cogger (2)**.

Dendraspis Fitzinger 1843; (correction of generic name), should now be used in place of *Hamadryas*, *Ophiophagus* for King Cobra, sub-specific names are:—*h. hannah* (Bengal); *h. veltata* (S. India); *h. claps* (Burma); *h. sinensis*, subsp. nov. (China); *h. borneensis*, subsp. nov. (Borneo) p. 61; *h. bungarus* (Sumatra), *Spolia Zeylan*. 29 1 1960, **Deraniyagala (8)**.

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Denisonia signata, Of Sydney region, general account, **Cogger (2)**; On 'wanderings' in captivity, **Mertens (15)**.

Doliophis see under *Maticora*.

Elaps see under *Micrurus*.

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Furina see under *Vermicella*.

Hemachatus haemachates, Fractionation of venom, **Björk & Bomon (1)**.

Hoplocephalus bungaroides, Of Sydney region, general account, **Cogger (2)**.

Leptomicrurus narduccii, Of Ecuador, **Peters, J. A. (2)**.

Maticora, Of the East Indies, general, **Ruiter (1)**; *M. bivirgata*, On protective behaviour, **Batchelor**; In Indonesia, general notes, hazard of bite, photographs, **Ruiter (2)**; Figs., and *intestinalis*, General, in Indonesia, **Ruiter (3)**.

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Micropechis ikaheka, General observations, head, fig. **Ruiter (4)**.

Micrurus, Of Ecuador, key to species: *ancoralis aequalis, annellatus annellatus, carinicaudus transandinus, ecuadorianus ecuadorianus, filiformis, hemprichi ortonii, langsdorffii, lemniscatus, mertensi, mipartitus mipartitus, ornatissimus, epizi obscurus, surinamensis surinamensis, tachudii olsoni*, **Peters, J. A. (2)**.

Micrurus affinis alienus, General observations in B. Honduras, **Neill (2)**; From Teapa, Tabasco, **Smith, H. M. (1)**.

Micrurus circinalis, Of Trinidad, **Wehckind**.

Micrurus frontalis, Coloured photograph, genera account, **Mertens (5)**; On 'wanderings' in captivity, **Mertens (15)**; *M. frontalis altirostris, f. multicinctus*, Notes on egg numbers, and on behaviour and its relation to folk-lore, **Azevedo**.

Micrurus fulvius, Of S. Costa Rica, described and notes on venom, **Boboz**; *M. fulvius fulvius*, Notes on egg numbers, **Azevedo**.

Micrurus lemniscatus [diutius ?], Of Trinidad, **Wehe-kind**.

Micrurus n. nigrocinctus, From Costa Rica, **Minton & Smith**.

Micrurus surinamensis nattereri, Type locality is fixed as between Guaramaco and San Fernando de Atabapo, Territorio Federal Amazonas, Venezuela, instead of San Fernando de Apure, fig., male noted with black occipital collar, **Hoge & Lancini** (4).

Micrurus tricolor, Is referred to synonymy of *pyrrhocryptus*, **Hoge & Lancini** (4).

Naja, The taxonomy of the S.E. Asian species, *naja naja* figs. (Ceylon); *n. madrasiensis* (extends as far North as 20°N. Latitude, Type loc. Madras district); *n. indusi*, subsp. nov. (C. India, N. of 20°N. latitude and N.W. India, (Punjab); *n. gangetica* (N.E. India, N. of 20°N. latitude into Bihar and Bengal); *kaouthia kaouthia* (Bengal, Assam, Burma, N. Malaya, Cambodia, Siam); *k. atra* (N. of Siam, Tonquin, China and in Japan); *k. sagittifera* (Andamans); *k. celebensis* (Celebes); *k. samarensis* (Philippines); *Spolia Zeylan*. 29 1 1960, p. 41-63, 4 pls., **Deraniyagala** (8); Of W. Africa, some notes on venom, figs., etc., distribution of species, **Dekeyser & Derivot** (2).

Naja haje, Microscopic changes included by several sublethal doses of venom, **Riad**; *N. h. haje*, Of W. Africa, notes on venom, etc., **Dekeyser & Derivot** (2); Of Kruger National Park; Of Morocco, **Pasteur & Bons** (7).

Naja hannah, General notes, S. India, **Satyamurti**.

Naja kaouthia kaouthia, and subspecies, see under *Naja* for details, **Deraniyagala** (8).

Naja melanoleuca, Of W. Africa, notes on venom, etc., **Dekeyser & Derivot** (2); From Ifakara, E. Prov., Tanganyika, **Freyvogel**; In Matope swamp, Shire R., Nyasaland, **Owen**; Of Brazzaville, C. Afr., **Ravisse**; A 4½-foot specimen from S. Rhodesia, **Warren**; *N. m. melanoleuca*, *m. subfulva*, Of Congo oriental, including ecology, **Laurent**; *N. m. subfulva*, Second record for S. Rhodesia, Inyangani Tea Estates, **Broadley** (2).

Naja morgani, Notes, Persia, Irak, Mesopotamia, **Deraniyagala** (8).

Naja naja, Purification and metabolic effects of a nerve growth-promoting protein from venom, **Cohen**, S.; Constituents of venom, **Detrait, Izard & Boquet** (1); Neurotoxins of the venom, **Detrait, Izard & Boquet** (2); On the heart, **Kashyap**; On adenosine phosphatases of venom, **Kaye**; In captivity, **Liat, Waters & Omar**; Structure of the enzymically formed lysolecithins, **Marinetti, Erbland, Temple & Stotz** (1); Fatty acid chain length preference of the enzyme, venom, **Marinetti, Erbland & Stotz** (2); Photograph, general account, **Mertens** (5); Free amino acids in blood, **Nair**; Of Ceylon, note on venom, treatments, **Ponnambalam**; On venom, enzymic hydrolysis of lecithins, **Rendina & Bovel-Mitti**; Fig., general notes, S. India, **Satyamurti**; *N. n. naja*, Preliminary researches on venom, **Mangili**; and subspecies see under *Naja* for details, **Deraniyagala** (8); *N. n. atra*, On venom, **Yang** (4, 5); **Yang & Takemura** (3); *N. n. aziana*, On venom, general observations, photo., **Petzold** (2).

Naja nigricollis, On venom, figs., of W. Africa, **Dekeyser & Derivot** (2); Constituents of venom, **Detrait, Izard & Boquet** (1); Neurotoxins of the venom, **Detrait, Izard & Boquet** (2); Effect of venom on rabbit, **Guyot &**

Boquet; Of Kruger National Park; Of Brazzaville, C. Afr., **Ravisse**; Of Parc National du Niokolo-Koba, Senegal, **Villiers** (2); *N. n. nigricollis*, From Ifakara, E. Prov., Tanganyika, **Freyvogel**; and *n. atriceps*, *n. crawshayi*, Of Congo oriental, including ecology, **Laurent**.

Naja nivea, Coloured photograph, general account, **Mertens** (5).

Notechis scutatus, Of Sydney region, general account, **Cogger** (2); Immunisation of man, **Wiener**.

Oxyuranus scutellatus, General observations and venom, **Reilly**.

Paranaja, Note on species, *duttoni*, *multifasciata*, Belgian Congo, *anomala*, Cameroons, **Perret**.

Pseudechis porphyriacus (Photograph), Of Sydney region, general account, **Cogger** (2); General observations and venom, **Reilly**.

Pseudohaje, Of W. Africa, notes, distribution of species, *goldii*, *nigra*, **Dekeyser & Derivot** (2); *P. goldii*, Of Congo oriental, including ecology, **Laurent**; Of Brazzaville, C. Afr., **Ravisse**.

Rhynchoelaps bertholdi, Coloured photograph, general account, **Mertens** (5).

Vermicella annulata, Photograph, Of Sydney region, general account, **Cogger** (2); *V. calonota*, Coloured photograph, general account, **Mertens** (5).

HOMALOPSIDAE

GENERA, if any, see under COLUBRIDAE.

HYDROPHIDAE

On duration of submergence, **Nicol**; General notes of S. India, Madras Mus. exhibition gallery, **Satyamurti**.

Distira cyanocincta, Free amino acids in blood, **Nair**.

Emydocephalus ijimae, Of Tokara Ids., **Shibata**.

Enhydrina schistosa, Isolation of neurotoxic component of venom, **Carey & Wright** (1); The toxicity and immunological properties of venom, **Carey & Wright** (2); General observations, **Fabre**; Fig., general notes, S. India; **Satyamurti**.

Hydrophis spiralis, General notes, S. India, **Satyamurti**.

Laticauda colubrina, Photograph, general account, **Mertens** (5); *L. semifasciata*, Of Topara Ids., **Shibata**.

Pelamis platurus, Of Sydney region, general account, **Cogger** (2); On colour varieties in Ceylon waters, figs., **Deraniyagala** (9); Of Ecuador, **Peters**, J. A. (2); General notes, S. India, **Satyamurti**; Of Tres Marias Ids., **Zweifel** (1).

†*Pterosphenus sheppardi* nov. sp. (p. 47 pl. 7). Upper Eocene, Santa Elena Peninsula, Ecuador. Bull. Soc. geol. Fr. (6) 8 1 1958, **Hoffstetter** (2).

ILYSIIDAE AND INILIIDAE

see under ANILIDAE

†LAPPARENTOPHIDAE

†*Lapparentophis* gen. nov. (p. 899), type sp. *L. defrenesi* sp. nov. (p. 899), text-fig. 2; Lower Cretaceous, Sahara [affinities with *Simoliophis*, *Pachyophis* and *Mesophis* and placed tentatively in a separate family Lapparentophidae], Bull. Soc. geol. Fr. (7) 1 9 1960, **Hoffstetter** (6).

LEPTOTYPHELOPIDAE

Of Congo oriental, **Laurent**.*Leptotyphlops*, On a method of counting scales, **Grant** (4).*Leptotyphlops albifrons*, Of Trinidad, **Wehckind**;
L. albifrons albifrons, Of Ecuador, **Peters**, J. A. (2).*Leptotyphlops anthracinus*, Of Ecuador, **Peters**, J. A. (2)
Leptotyphlops conjuncta, Of Kruger National Park;
L. c. latirostris, Of Congo oriental, including ecology, **Laurent**.*Leptotyphlops dulcis*, Anatomy and histology of hypophysis, **Saint Girons**, H. (2); *L. d. dissectus*, On an unusually large aggregation in Oklahoma, 13 specimens, **McCoy** (1); First record from Chihuahua, Mexico and extends range of *dulcis* to S.W.; *humilis segregus*, new specific record to Chihuahua and range of *L. segregus* extended 200 mls. S.W., **Tanner & Robison** (5).*Leptotyphlops emini emini*, Of Congo oriental, including ecology, **Laurent**.*Leptotyphlops macrorhynchus*, From Iraq, **Khalaf**;
Of Morocco, **Pasteur & Bons** (7); Of Parc National du Niokolo-Koba, Senegal, **Villiers** (2); Of Iraq, **Weber**.*Leptotyphlops scutifrons*, Of Kruger National Park.

NATRICIDAE

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†PALAEOPHIDAE

Provisionally placed in Lacertilia by **Romer** (1956) to include *Paleophis* + *Pterosphenus*, q.v., **Auffenberg** (7).†*Anomalophis* gen. nov. provisionally placed in the *Paleophidae* q.v. p. 15, type sp. *A. bolensis* (Massalonga), p. 15, text-figs. 2-4, Near Verona, Italy, Monte Bolca limestone, middle Eocene, **Auffenberg** (7).†*Paleophis* proposal to return this genus to the suborder Ophidia (Serpentes) and that with *Pterosphenus* it constitutes a distinct family, **Auffenberg** (7); †*P. tolapius* vertebra from the London Clay, **Anon** (2).†*Pterosphenus* proposal that this genus be returned to the suborder Ophidia (Serpentes) with *Paleophis*, **Auffenberg** (7); Vertebrae in the Eocene of Dor et Talah, Libya, **Hoffstetter** (5).

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TYPHELOPIDAE

Of Congo Oriental, **Laurent**.*Anomalepis flavipices*, Of Ecuador, **Peters**, J. A. (2).*Helminthophis*, Probably in Ecuador, **Peters**, J. A. (2).*Liotyphlops petersii*, Of Ecuador, **Peters**, J. A. (2).*Typhlops*, Of Sydney region, general account, **Cogger** (2); On a method of counting scales, **Grant** (4); On Bahaman species, key, *biminiensis*, *lumbicalis*, *situs* (first record), **Legler** (4); Spp. (*polygrammicus*, *ligatus*, *australis*, *proximus*), species used in examination of internal anatomy, figs., **Robb**.*Typhlops acutus*, On the heart, **Kashyap**; General notes, S. India, **Satyamurti**.*Typhlops angolensis angolensis*, *angolensis symoensis* subsp. nov. (p. 10), type loc.: Riviere Ngovi, 1500-2000 m, Territoire d'Uvira, Kivu; paratypes, Makobola, lac. Tanganyika, Territoire d' Uvira, Kivu and Fiji, versantde la Kilombwe et Sandje, 1300-1350 m.; *a. irsaci* *a. polylepsis*, *a. dubius*, *a. adolfi*, Of Congo oriental, **Ann**, Mus. Congo belge (8), Zool. 84, 1960, **Laurent**.*Typhlops boulegeri*, Of Congo oriental, including ecology, **Laurent**.*Typhlops braminus*, On the heart, **Kashyap**; Of Amami, **Koba**; General notes, S. India, **Satyamurti**; Of Tokara Ids., **Shibata**; Of Province de Quang-tri, C. Vietnam, **Tien**.*Typhlops caecus*, Of Brazzaville, C. Afr., **Ravisse**.*Typhlops congestus*, Of Congo oriental, including ecology, **Laurent**.*Typhlops conicus*, Is proved to be a non-existent species, due to impending moult, *C. lestradei* Witte, is a synonym of *angolensis dubius* Chabanaud, **Laurent**.*Typhlops gracilis polli*, Of Congo oriental, including ecology, **Laurent**.*Typhlops graueri*, Of Congo oriental, including ecology, **Laurent**.*Typhlops koniagui*, sp. nov., type loc.: Guinée Française Youkounkoun, Mem. Inst. franc. Afr. n. No. 48, 1956, p. 151, fig. hd., **Villiers** (2).*Typhlops punctatus*, Of Brazzaville, C. Afr., **Ravisse**; Of Parc National du Niokolo-Koba, Senegal, **Villiers** (2).*Typhlops reticulata*, Of Ecuador, **Peters**, J. A. (2); Of Trinidad, **Wehckind**.*Typhlops schlegelii schlegelii*, s. mucroso (?), Of Kruger National Park; *T. s. mucroso*, From Ifakara, E. Prov., Tanganyika, **Freyvogel**.*Typhlops vermicularis*, From Iraq, **Khalaf**; Col. pl. of Armenia, **Luppa, Müller, Nicht & Tietze**; Of Corfu, fig., notes, **Mertens** (13); Observations on habits in Jugoslavia, **Radovanović** (1).

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General notes, S. India, **Satyamurti**.*Uropeltis phipsoni*, On the heart, **Kashyap**.

VIPERIDAE

Of Brazzaville, C. Afr., **Ravisse**; General notes of S. India, Madras Mus. exhibition gallery, **Satyamurti**; On 'combat' or 'dancing' behaviour, figs., **Thomas**, E.*Agkistrodon* included with *Ancistrodon*.*Agkistrodon*, Of the East Indies, general, **Ruiter** (1).*Agkistrodon acutus*, Biochemical study on venom, **Yang, Su & Chen** (2); **Yang** (4, 5).*Agkistrodon bilineatus*, On tail tip as lure, figs., **Neill** (1); *A. b. bilineatus*, Of Tres Marias Ids., **Zweifel** (1).*Agkistrodon blomhoffii*, Comparative histology of thyroid, **Yamamoto**; *A. b. blomhoffii*, Preliminary researches on venom, **Mangili**.*Ancistrodon conortrix*, Physiological effect of venom, **Anon** (4); Fully comprehensive 'autecology', figs., **Fitch** (1); Photograph, general account, **Mertens** (5); On caudal lure of juveniles, **Neill** (1); Of Pine Hills area, S. Illinois, **Rossman**; *A. c. mokeson*, Of Johnson Cnty., Indiana, **Holman** (2); Kansas records, **Legler** (1).*Ancistrodon halys*, Of W. Kazakhstan, Russia, **Paraskiv & Butovski**; *Ag. h. brevicauda*, In Korea, **Hahn** (1).*Agkistrodon hypnale*, On tail tip as lure, **Neill** (1); General notes, S. India, **Satyamurti**.

Ancistrodon napa napa, Preliminary researches on venom, **Mangili**.

Ancistrodon piscivorus, Physiological effect of venom, **Anon** (4); Purification and metabolic effects of a nerve growth-promoting protein from venom, **Cohen, S.**; Remarks on a mended fracture, figs., **Jakastien & Petsold**; On tail tip as lure, figs., **Neill** (1); On venom, general observations, photo, **Petsold** (2); Venom proteases activation and reversal of chelating effects, **Philpot**; On a synthetic inhibitor of venom, **Rosenthal & Geyer** (2); *Ag. p. piscivorus*, On birth and behaviour of a brood, with notes on tail-luring, **Wharton**; *Ag. p. leucostoma*, Of Pine Hills area, S. Illinois, **Rossman**.

Ancistrodon rhodostoma, On bite and treatment in Thailand, **Benyajati, Keoplung & Sribhibhadh**.

Ancistrodon included with *Agkistrodon*.

Aspis cerastes, Photograph, *viper*a, photograph, general account, **Mertens** (5).

Atheris, Of W. Africa, notes on venom, etc., distribution of species, *squamigera*, *chlorocephala*, *ceratophorus*, **Dekeyser & Derivot** (2); *A. squamigera*, Coloured photograph, general account, **Mertens** (5); *A. squamigera squamigera*, *nitschesi nitschesi*, *hiopida*, Of Congo oriental, includes ecology, **Laurent**.

Atractaspis, Observations on the fangs, figs., **Dekeyser & Derivot** (1); Of W. Africa, distribution of species, some observations on venom, and use of fangs, figs. **Dekeyser & Derivot** (2); Key to Cameroon species, **Perret**.

Atractaspis aeterrima, Of W. Africa, notes on venom, etc., **Dekeyser & Derivot** (2).

Atractaspis bibroni bibroni, Preliminary researches on venom, **Mangili**.

Atractaspis coalescens, sp. nov., type loc.: Bamileké, Bangwa Prov., Cameroon, Rev. Suisse Zool. 67 (1) 1960 p. 130, head figd., **Perret**.

Atractaspis corpulenta, Case history of bite and treatment in Liberia, **Gunders, Walter & Etzel**; On white tail, **Neill** (1); *A. c. leucura*, Of W. Africa, notes on venom, etc., **Dekeyser & Derivot** (2).

Atractaspis dahomeyensis, Of W. Africa, notes on venom, fangs, etc., **Dekeyser & Derivot** (2); Of Parc National du Niokolo-Koba, Senegal, **Villiers** (2).

Atractaspis irregularis, Of Brazzaville, C. Afr., **Ravisse**; *A. i. irregularis*, Of W. Africa, notes on venom, etc., **Dekeyser & Derivot** (2); *A. i. conradi*, Of Congo oriental, including ecology, **Laurent**.

Atractaspis microlepidota, A case of non-fatal bite in the Yemen, **Egideo**; *A. microlepidota microlepidota*, Of W. Africa, notes on venom, fangs, figs., **Dekeyser & Derivot** (2).

Atractaspis reticulata brieni, Of Congo oriental, including ecology, **Laurent**.

Atractaspis watsoni, Of W. Africa, notes on venom, fangs, figs., **Dekeyser & Derivot** (2).

Bitis, Of W. Africa, notes on venom, etc., figures; distribution of species, *lachesis lachesis* (figures showing position of attack), *gabonica rhinoceros*, *nasicornis*, **Dekeyser & Derivot** (2); Of Brazzaville, C. Afr., *lachesis*, *gabonica*, **Ravisse**.

Bitis arietans, Case history of bite, Rhodesia, **Balarin**; Considerations of head construction from a functional-anatomical angle, **Dullemeijer**; Of Kruger National Park; On venom, **Petsold** (2); On fighting behaviour, figs., **Thomas, E.**; *B. a. arietans*, Case history of a bite,

in Bulawayo, **Blaylock** (2); From Ifakara, E. Prov., Tanganyika, **Freyvogel**; With notes on a litter of 53 young, of Congo oriental, **Laurent**; Preliminary researches on venom, **Mangili**; Of Morocco, **Pasteur & Bons** (7).

Bitis arietans, see also under *B. lachesis*.

Bitis caudalis, From Hillside, Bulawayo, S. Rhodesia, **Broadley** (2); Of S.W. Africa, **Hoesch** (2); Fig., In vivarium, **Hoesch** (3); Coloured photograph, general account, **Mertens** (5).

Bitis gabonica, Photograph, general account, **Mertens** (5); *B. g. gabonica*, Of Congo oriental, includes ecology, **Laurent**; Preliminary researches on venom, **Mangili**.

Bitis lachesis, Of Parc National du Niokolo-Koba, Senegal, **Villiers** (2).

Bitis lachesis, see also under *B. arietans*.

Bitis nasicornis, Of Congo oriental, including ecology, **Laurent**; General notes, in San Diego Zoo., figs., **Shaw** (3).

Bitis peringueyi, On the locomotion, and speculations on the origin of side-winding, figs., **Brain** (1); Photographs of burrowing, general account, **Mertens** (5).

Bothrops, Of Ecuador, key to species: *albicarinata*, *alticola*, *atrox atrox*, *bilineata*, *castelnauvi*, *hyoprora*, *lojana*, *microphthalma microphthalma*, *nasuta*, *pulchra*, *punctata*, *schlegelii schlegelii*, *xanthogramma*, **Peters**, J. A. (2); *B.* (several species), On venom, **Rosenfeld**, **Hampe & Kelen**.

Bothrops alternata, On pattern transforming into longitudinal stripes (viii) figs., **Lema**; Photograph, general account, **Mertens** (5).

Bothrops alticola, On tail tip as lure, **Neill** (1).

Bothrops atrox, On tail tip as lure, *a. asper*, and sex-dimorphism, **Neill** (1); Of S. Costa Rica, described and notes on venom, **Roboz**; Of Trinidad, **Wehekind**; *B. a. asper*, General observations in B. Honduras, **Neill** (2); From Teapa, Tabasco, **Smith, H. M.** (1).

Bothrops bicolor, Photograph of head, general account, **Mertens** (5).

Bothrops cotiara, New distribution record, Erechim, Rio Grande do Sul, Brazil, V. fig., **Lema**.

Bothrops insularis, On sexual abnormalities (intersexes), figs., **Hoge, Belluomini, Schreiber & Penha** (3).

Bothrops jararaca, Bradykinin-releasing factor from venom, **Henriques, Fichman & Beraldo** (1); Fractional precipitation of venom solution, **Henriques, Fichman, Henriques & Oliveira**; On pattern transforming into longitudinal stripes, (viii) figs., **Lema**.

Bothrops lansbergi, Of S. Costa Rica, described and notes on venom, **Roboz**.

Bothrops lateralis, Of S. Costa Rica, described and venom notes, **Roboz**.

Bothrops lephura, On tail tip as lure, **Neill** (1).

Bothrops nasuta, Of S. Costa Rica, described and notes on venom, **Roboz**.

Bothrops neuwiedi, Of Santa Cruz, Bolivia, **Gans** (3).

Bothrops nummifer, On tail tip as lure, **Neill** (1); General observations in B. Honduras, **Neill** (2); From British Honduras, figs., with notes on other specimens, **Neill & Allen** (3); Of S. Costa Rica, described and notes on venom, **Roboz**.

Bothrops schlegelii, On tail tip as lure, **Neill** (1); Coloured photograph, general account, **Mertens** (5); Of S. Costa Rica, described and venom notes, **Roboz**; *B. s. schlegelii*, General observations in B. Honduras, **Neill** (2).

Causus, Of W. Africa, notes on venom, etc., distribution of species, *rhombatus*, *lichtensteini*, **Dekeyser & Derivot** (2); Of Brazzaville, C. Afr., *rhombatus*, *lichtensteini*, **Ravisse**; *C. defilippii*, *rhombatus*, Of **Kruger National Park**; *C. d. defilippii*, *rhombatus*, Preliminary researches on venom, **Mangili**; *C. resimus*, Of Congo Oriental, including ecology, **Laurent**; *C. rhombatus*, From Ifakara, E. Prov., Tanganyika, **Freyvogel**; Of Parc National du Niokolo-Koba, Senegal, **Villiers** (2).

Cerastes, Of W. Africa, on venom, etc., distribution of species, *cerastes*, *vipera*, **Dekeyser & Derivot** (2); *C. cerastes*, *vipera*, Of Morocco, **Pasteur & Bons** (7); *C. vipera*, On tail colour sex-dimorphism, **Neill** (1).

Crotalus, Probably in Ecuador, **Peters, J. A.** (2); On bites in S. California, **Russell** (1); Preliminary report on cardiovascular effects of venom, **Russell & Michaelis** (4).

Crotalus adamanteus, Fractionation of venom by gel-filtration method, **Bjork & Porath** (2); On toxicity and treatment of bite, **Deichmann**, et al; Fatty acid chain length preference of the enzyme, venom, **Marinetti, Erbland & Stotz** (2); Structure of the enzymatically formed lysocleithins, **Marinetti, Erbland, Temple & Stotz** (1) Activation of venom proteases and reversal of chelating effects with sodium bicarbonate, **Philpot**; Hematologic effect of venom, **Radomski**, et al; On zootoxicologic effects on venom, **Russell & Michaelis** (5); On preparation of crystalline L-Amino oxidase from venom, **Wellner & Meister**.

Crotalus atrox General considerations of head construction from a functional-anatomical angle, **Dullemeijer**; On bites in California, **Russell** (1); Some positive properties of venom after 26 years storage, **Russell, Emery & Long** (3); On zootoxicologic effects of venom, **Russell & Michaelis** (5).

Crotalus cerastes, Photographs and sidewinding action, general account, **Mertens** (5); Some positive properties of venom after 26 years storage, **Russell, Emery & Long** (3); *C. c. cerastes*, *c. laterorepens*, On bites in California, **Russell** (1).

Crotalus durissus subsp., From British Honduras, fig., essentially *taeaban*, **Neill & Allen** (3); *C. d. terrificus*, Photographs, general account, **Mertens** (5); On tail tip as lure, **Neill** (1); On venom, **Rosenfeld, Hampe & Kelen**; On individual venom composition from 531 specimens **Schenberg**.

Crotalus horridus horridus, Morphological variation in a litter from Allegany State Park, N.Y., **Stewart, Larson & Matthews**; *C. h. atricaudatus*, On tail tip as lure, **Neill** (1); Of Pine Hills area, S. Illinois, **Rossman**.

Crotalus lepidus klauberi, On tail tip as lure, **Neill** (1).

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Crotalus p. pricei, On tail tip as lure, **Neill** (1).

Crotalus ruber ruber, On bites in California, **Russell** (1); Some positive properties of venom after 26 years storage, **Russell, Emery & Long** (3).

Crotalus scutulatus scutulatus, On bites in California, **Russell** (1).

Crotalus terrificus, Of S. Costa Rica, described and notes on venom, **Roboz**.

Crotalus viridis viridis, Of S. Dakota, **Fishbeck & Underhill**; Some positive properties of venom after 26 years storage, **Russell, Emery & Long** (3); Of Southern New Mexico and Texas, **Sabath** (1); *C. v. helleri*, On tail

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Sistrurus c. catenatus, On a brood of seven from N. Indiana, **Adler** (2); Bite case history, **Dodge & Folk**; Ecology, of Mud Lake bog, Washtenaw Cnty., Michigan, **Heatwole & Getz**; *S. mularius*, On tail tip as lure, **Neill** (1); *S. m. barbouri*, Note on bite, **Blake** (1); *S. m. streckeri*, On a litter of 32, from Oklahoma, **Carpenter** (6).

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Trimeresurus borneensis, On tail tip as lure, **Neill** (1).

Trimeresurus elegans, On tail tip as lure, **Neill** (1).

Trimeresurus erythrus, On tail tip as lure, **Neill** (1).

Trimeresurus flavoviridis flavoviridis, Of Amami, habitat figs., and food notes, **Koba**; *T. f. tokarensis*, Of Tokara Ids., **Shibata**.

Trimeresurus gramineus, On bite and treatment in Thailand, **Benyajati, Keoplung & Srihibhaddh**; On venom enzymes, **Chen** (3); On the heart, **Kashyap**; On tail tip as lure, **Neill** (1); General notes, S. India, **Satyamurti**; Of Province de Quang-tri, C. Vietnam, **Tien**.

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Trimeresurus popeorum, On 'wanderings' in captivity, **Mertens** (15); On tail tip as lure, **Neill** (1).

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Trimeresurus wagleri, On tail vibration, **Batchelor**; In captivity, **Liat, Waters & Omar**; On tail tip as lure, **Neill** (1).

Vipera ammodytes, Considerations of head construction from a functional-anatomical angle, **Dullemeijer**; Photographs, general account, **Mertens** (5); On venom, general observations, photo., **Petzold** (2); *V. a. ammodytes*, Photograph, of Europe, general, range, growth, **Mertens** (4); *V. a. molandoni*, On 'fighting' behaviour, figs., **Thomas, E.**

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[*Vipera berus*], In Surrey, Hayman; Survey in Epping Forest, Essex, Malenoir; *V. berus*, The pancreas exocrine reactions, Arvy (1); Coloured figs., general observations, of Sweden, Curry-Lindahl; Early year record in Dorset, Gooch; Observation in Esthonia and use of venom in medicine, Hanson & Poots; Photographs, general account, Mertens (5); On venom, Peizold (2); Sexual dimorphism of the leucogrammes, Saint Girons, M. C.; On rearing in captivity, figs., Taborski; *V. b. berus*, Photograph, of Europe, general, range, growth, Mertens (4).

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Vipera palaestinae, Quantative study of venom secretion, Kochva; Chromatographic study on venom, Kochwa, et al.; Coagulation factors in venom, Rechin, et al.; On antivenine preparation, Shulov, et al.

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Xenopeltis unicolor, Photograph, general account, Mertens (5); On 'wanderings' in captivity, Mertens (15).

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†*Dunnophis microechinus* sp. nov. (p. 144, pl. 56); Eocene, Elk Mountain, Tabernacle Butte, Wyoming. Bull. Amer. Mus. nat. Hist. 117 3 1959, Hecht, M. K. in McGrew.

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Laurent; The structure of the choanae of the Emydinae and phylogenetic implications [genera examined are listed in Record, but not all of the many species], figs., Parsons; On mechanism of carapace and plastron hinges, figs., Shah.

Amyda, see under *Trionyx*.

Annamemys grochovskiae, sp. nov., type loc.: Vinh-Linh Forest, Quang-tri Province, C. Vietnam. Zool. Anz. 164 (5-6), p. 225, figs., Tien.

†*Archaeochelydium* nom. nov. for *Archaeochelys* Berg 1838 non Lyd. 1889, Kuhn (1).

†*Archelon*, General observations, Fletcher (2).

Callagur borneoensis, Structure of the choanae, Parsons.

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Chinemys reevesii, On healing techniques, Bickel; On pet keeping, fig., Dowling & Spencecock (8); Photograph, general account, Mertens (5); On the structure of the choanae, Parsons.

†*Chitra indica* plastron fragment from the Pleistocene of Java, Hooijer (1).

Chrysemys, On pet keeping, figs., of *picta*, *leprosa*, Dowling & Spence (8); On hearing, Schwartzkopf.

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Clemmys guttata, Coloured photograph, general account, Mertens (5).

Clemmys insculpta, Observations on nesting in New Jersey, Pallas; Sound transmission compared with that postulated for fossil turtles Tatarinov (2).

†*Clemmys* ? *isocline*, a redescription of *Hardella isocline* Dubois, from the Trinil Beds in Java, Williams, E. (1).

Clemmys japonica, On pet keeping, fig., Dowling & Spence (8); On gall-bladder secretion, Yamada, K. (1) Histological study of the anterior pituitary, fig., Yamada, K., Sano, Nonomura & Ieda (2). Comparative histology of thyroid, Yamamoto.

Clemmys leprosa, On healing techniques, Bickel; see also under *caspica*.

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Clemmys mutica, From Tokara Ids., Japan, Shibata.

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†*Cratochelone berneyi*, General observations, Fletcher (2).

†*Crossochelys*, General observations, Fletcher (2).

Cuora amboinensis, *flavomarginata*, *trifasciata*, On the structure of the choanae, Parsons.

Cyclanorbis senegalensis, Of Parc National du Niokolo-Koba, Senegal, Villiers (2).

Cyclemys dentata, On the structure of the choanae, Parsons.

Deirochelys reticularia, On the structure of the choanae, Parsons.

Dermatemys mawi, From Teapa, Tabasco, Smith, H. M. (1).

†*Dermatochelys lowi*, detailed study of the skeleton found in the Cretaceous of Dakota, Zangerl & Sloan (3).

Dermochelys coriacea, Caught 5-7 miles S.W. of Old Head of Kinsale, Co. Cork, Ireland, Atkins; Of Sydney region, general account, Cogger (2); Coloured fig., Of Sweden, general observations, Curry-Lindahl; Fig., general observations, Fletcher (2); New record off Karmoy Id., Co. Rogaland, S.W. Norway, Helgersen; Photograph, Of Europe, general, range, growth, Mertens (4); Photograph, Of young, general account, Mertens (5); On conservation in Malaya, figs., Wyatt-Smith; *D. c. coriacea*, *c. schlegelii*, Of Colombia, Medem (1); *D. c. [coriacea]*, Of Morocco, Pasteur & Bons (7).

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Emys leprosa, Effects of hypophysectomy on blood, Aron, et al. (1); Epiphysectomy, Aron, Combescot & Demaret (2); Neurosecretion after destruction of the epiphysaire region, Aron, et al. (3); On the action of some oestrogens and androgens on genital tract, Stefan.

Emys orbicularis, In Zealand, Holland, Bree; Coloured fig., general observations, of Sweden, Curry-Lindahl; Photograph, of Europe, general, range, growth, Mertens (4); Photograph, general account, Mertens (5); Of Corfu, notes, Mertens (13); Of W. Kazakhstan, Russia, Paraskiv & Butovski; Of Morocco, Pasteur & Bons (7).

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Geochelone elegans, On aberrant scutation, Egliis (2); *G. radiata*, On longevity record of 30 + years, Egliis (3).

Geoclemmys reevesi, In Korea, Hahn (1); *G. hamiltonii*, On the structure of the choanae, Parsons.

Geomyda, Of Colombia, geographic range, *annulata*, *punctulata*, *p. nasuta*, *p. diademata*, *p. melanosterna*, Medem (1); 14 species and subspecies examined, On the structure of the choanae, Parsons.

Geomyda areolata, From Teapa, Tabasco, Smith, H. M. (1).

†*Geomyda eureka* from Rebelice Królewskie, near Klobuck, Poland, a new locality, Pliocene, Mlynarski (1).

Geomyda punctularia diademata, Of Colombia, **Maria** (1).

Geomyda trijuga, On the heart, fig., **Kashyap**; Free amino acids in blood, **Mair**.

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Hardella indica, *thurjii*, On the structure of the choanae, **Parsons**; †*H. isocline*, see *Clemmys* ? *isocline*, **Williams**, E. (1).

Hieremys annandalii, On the structure of the choanae, **Parsons**.

Kachuga tecta, Coloured photograph, general account, **Mertens** (5); In terrarium, photograph, **Rekum K. t. tecta, *t. tentoria*, *trivittata*, On the structure of the choanae, **Parsons**.**

Kinixys belliana australis, Of **Kruger National Park**; *K. b. nogueyi*, Of **Parc National du Niokolo-Koba**, Senegal, **Villiers** (2); *K. erosa*, *belliana belliana*, Of Congo Oriental, includes ecology, **Laurent**.

Kinosternon, Of Colombia, including geographic ranges, *spurelli*, *dunni*, *scorpioides scorpioides*, *s. albogulare*, **Medem** (1).

Kinosternon hirtipes, From Chihuahua, **Williams**, K. L., **Smith & Chaplwy**.

Kinosternon integrum, Of Tres Marias Ids., **Zweifel** (1).

Kinosternon leucostomum, From Teapa, Tabasco, **Smith**, H. M. (1).

Kinosternon scorpioides, Observations on reproduction, photographs, in Venezuela, **Sexton**; *K. s. scorpioides*, Of Colombia, Amazonas, distribution, ecology, **Medem** (4).

Kinosternon subrubrum hippocrepis, From Texas, on eggs and young coloration, **Sabath** (2); *K. s. steindachneri*, Photograph, of head, general account, **Mertens** (5).

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Lissemys punctata, On the heart, **Kashyap**; Free amino acids in blood, **Mair**.

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Macrolemmys temminckii, On healing techniques, **Bickel**; Distributional records in Kansas, **Legler** (1).

Malaclemys terrapin, General observations, habits, hatchlings, photographs; subspecies discussed: *t. terrapin*, *t. centrata*, *t. rhizophorarum*, *t. pileata*, *t. littoralis*, **Reid**, G. K.; *M. t. terrapin*, *t. centrata*, *t. macrospilota*, *t. pileata*, *t. rhizophorarum*, On the structure of the choanae **Parsons**.

Malacochersus tornieri, Observations on habits, **Egils** (1).

Malayemys subtrijuga, On the structure of the choanae, **Parsons**.

†*Meiolania*, General notes, **Fletcher** (2).

Mesoclemmys gibba, Of Colombia, **Medem** (1).

Morenia ocellata, On the structure of the choanae, **Parsons**.

†*Niolamia*, General observations, **Fletcher** (2).

Notochelys (*Notochelone*), General observations, **Fletcher** (2); *N. platynota*, On the structure of the choanae, **Parsons**.

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Platemys platycephala, Of Colombia, **Medem** (1); Of Colombia, Amazonas, distribution, ecology, **Medem** (4).

Platysternon megacephalum, Photograph, general account, **Mertens** (5); Fig., On swimming, **Mertens** (11); On the systematic status; *m. megacephalum*, fig., *m. peguense*, figs., Burma, Thailand, Indo-China, **Wermuth** (1).

Pleurodira, **Maria** (4).

Podocnemis, Of Colombia, geographic range, *expansa*, *unifilis*, *vogli*, *dumeriliana*, *lewysana*, **Medem** (1); †*P. argentinensis* sp. nov. (p. 60, text-fig. 1, pl. 1), Province of Jujuy, Argentina, Cretaceous, Physis. B. Aires, 21 No. 60, 1958. **Cattol & Freiberg**; *P. expansa*, *unifilis*, *sextuberculata*, *dumeriliana*, Of Colombia, Amazonas, distribution, ecology, **Medem** (4); *P. unifilis*, On pet keeping, fig., **Dowling & Spencecock** (8).

†*Protostega*, General observations, **Fletcher** (2).

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Pseudemys elegans, Incorporation of P22 into the O-Phosphodiester of L-Serine and Ethanolamine, **Ayengar & Roberts**.

Pseudemys floridana, On healing techniques, **Bickel**.

Pseudemys hieroglyphica, On healing techniques, **Bickel**.

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Terrapene mexicana yucatanica, General observations in B. Honduras, **Neill** (2).

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Testudo, On two giant tortoises in the Colombo Museum, from Mauritius and Seychelles, **Deraniyagala** (2); Of Santa Cruz, Bolivia, **Gans** (3); Of Galita Ids., Tunisia, **Lanza & Bruzzone** (1); On the paratympanum, **Simonetta**; On the giant species, possible survival? species figured, **Street**.

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Testudo elegans, On the heart, **Kashyap**; In terrarium, photograph, **Rekum**.

Testudo elephantopus, Photograph in nature, general account, **Mertens** (5).

Testudo gigantea, Fig., **Street**.

Testudo graeca, On temperature effect on growth, **Pachopos**; On muscle elasticity, **Reichel, Zimmer & Bleichert** (2); Enzymatic activities of the erythrocytes, **Stolk** (6); *T. (Testudo) graeca graeca*, Of Morocco, **Pasteur & Bons** (7).

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†*Testudo margae* has Upper Siwalik (Lower Pleistocene) affinities in the Celebes, **Hooijer** (1).

Testudo marginata, On strange behaviour and on use of penicillin, **Susebach**.

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Testudo microphyes, Fig., **Street**.

Testudo nigrita, Fig., **Street**.

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†*Testudo praegraeca ibera*, sp. nov., From Malusteni, Moldavia, An. Sti. Univ. Iasi, (2) Sti. nat. 6 (2) 1960 : 377, fig., **Macarovi & Vancea**.

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ICHNITES

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